

# NACOmatic

Effective: 22-October-2009

Expires: 17-December-2009

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## GENERAL INFORMATION

This Airport/Facility Directory is a Civil Flight Information Publication published and distributed every eight weeks by the National Aeronautical Charting Office, FAA, Department of Transportation, Silver Spring, Maryland 20910. It is designed for use with Aeronautical Charts covering the conterminous United States, Puerto Rico and the Virgin Islands.

This directory contains all open to the public airports, seaplane bases and heliports, military facilities, and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally, this directory contains communications data, navigational facilities and certain special notices and procedures.

Military data contained within this publication is provided by the National Geospatial-Intelligence Agency and is intended to provide reference data for military and/or joint civil/military airports. Not all military data contained in this publication is applicable to civil users.

## CORRECTIONS, COMMENTS, AND/OR PROCUREMENT

**CRITICAL** information such as equipment malfunction, abnormal field conditions, hazards to flight, etc., should be reported as soon as possible to the nearest FAA facility, either in person or by reverse charge telephone call.

**FOR AIRPORT SUPPLEMENT REVISIONS FORM VISIT WEB SITE:** <http://nfdc.faa.gov/portal/airportchanges.do>

FAA, Aeronautical Information Services, ATO-R, Rm. 626  
800 Independence Ave., SW  
Washington, DC 20591  
Telephone 1-866-295-8236  
Fax 202-267-5322  
Email 9-ATOR-HQ-AIS-AIRPORTCHANGES@FAA.GOV

NOTICE: Changes must be received by the Aeronautical Information Services as soon as possible but not later than the "cut-off" dates listed below to assure publication on the desired effective date.

	Airport Information	Airspace Information*
Effective Date	Cut-off date	Cut-off date
22 Oct 09	9 Sep 09	20 Aug 09
17 Dec 09	4 Nov 09	15 Oct 09
11 Feb 10	30 Dec 09	10 Dec 09
8 Apr 10	24 Feb 10	4 Feb 10
3 Jun 10	21 Apr 10	1 Apr 10
29 Jul 10	16 Jun 10	27 May 10

\*Including changes to preferred routes and graphic depictions on charts.

**FOR CHARTING ERRORS CONTACT:**

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Email [9-AMC-Aerochart@faa.gov](mailto:9-AMC-Aerochart@faa.gov)

Frequently asked questions (FAQs) are answered on our web site at [www.naco.faa.gov](http://www.naco.faa.gov).  
See the FAQs prior to contact via toll free number.

**FOR PROCUREMENT CONTACT:**

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Telephone 1-800-638-8972  
Fax 301-436-6829  
or any authorized FAA Chart Agent

**New or Changed Information**—To alert users of new information or changes to information from the previous issue, a vertical line will be portrayed in the outside margin and extending the full length of the new and/or revised data. This will not apply to the front cover or the airport/facility directory listing.

This Airport/Facility Directory comprises part of the following sections of the United States Aeronautical Information Publication (AIP): GEN, ENR and AD.



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## ABBREVIATIONS

The following abbreviations/acronyms are those commonly used within this Directory. Other abbreviations/acronyms may be found in the Legend and are not duplicated below. The abbreviations presented are intended to represent grammatical variations of the basic form. (Example—"req" may mean "request", "requesting", "requested", or "requests").

AAF	Army Air Field	byd	beyond
AB	Airbase	C	Commercial Circuit (Telephone)
abv	above	CGAF	Coast Guard Air Facility
ACC	Air Combat Command; Area Control Center	CGAS	Coast Guard Air Station
acft	aircraft	CIV	Civil
ADCC	Air Defense Control Center	clsd	closed
AER	approach end rwy	comd	command
AFB	Air Force Base	CONUS	Continental United States
AFHP	Air Force Heliport	CSTMS	Customs
afld	airfield	ctc	contact
AFOD	US Army Flight Operations Detachment	ctl	control
AFRC	Armed Forces Reserve Center/Air Force Reserve Command	dalgt	daylight
AFSS	Automated Flight Service Station	Dec	December
AG	Agriculture	DIAP	DoD Instrument Approach Procedure
A-GEAR	Arresting Gear	DoD	Department of Defense
AGL	above ground level	DSN	Defense Switching Network (Telephone)
AHP	Army heliport	dspld	displaced
ALS	Approach Light System	durn	duration
alt	altitude	eff	effective
AMC	Air Mobility Command	emerg	emergency
ANGS	Air National Guard Station	EOR	End of Runway
apch	approach	ETA	Estimated Time of Arrival
Apr	April	ETD	Estimated Time of Departure
APU	Auxiliary Power Unit	exc	except
ARB	Air Reserve Base	extd	extend
arpt	airport	FBO	fixed-base operator
ARS	Air Reserve Station	Feb	February
AS	Air Station	fld	field
ASDE-X	Airport Surface Detection Equipment—Model X	FLIP	Flight Information Publication
ASU	Aircraft Starting Unit	flt	flight
ATC	Air Traffic Control	flw	follow
Aug	August	Fri	Friday
AUW	All Up Weight (gross weight)	FSS	Flight Service Station
avbl	available	GA	glide angle
bcn	beacon	GCA	Ground Controlled Approach
blo	below	GS	glide slope
		haz	hazard
		HQ	Headquarters

CONTINUED ON NEXT PAGE

## CONTINUED FROM PRECEDING PAGE

hr	hour	npi	non precision instrument
IAP	Instrument Approach Procedure	NS ABTMT	Noise Abatement
ICAO	International Civil Aviation Organization	NSTD	nonstandard
IFR	Instrument Flight Rules	ntc	notice
ILS	Instrument Landing System	obsn	observation
IM	Inner Marker	Oct	October
IMG	Immigration	OLF	Outlying Field
incr	increase	opr	operate, operator, operational
indef	indefinite	ops	operations
ints	intensity	OTS	out of service
invo	in the vicinity of	ovrn	overrun
IMC	Instrument Meteorological Conditions	PAEW	personnel and equipment working
Jan	January	pat	pattern
JASU	Jet Aircraft Starting Unit	p-line	power line
JOAP	Joint Oil Analysis Program	PMSV	Pilot-to-Metro Service
JOSAC	Joint Operational Support Airlift Center	POL	Petrol, Oils and Lubricants
JRB	Joint Reserve Base	PPR	prior permission required
Jul	July	PRM	Precision Runway Monitoring
Jun	June	PTD	Pilot to Dispatcher
Kt	Knots	RAMCC	Regional Air Movement Control Center
LAA	Local Airport Advisory	req	request
LAHSO	Land and Hold Short Operations	rgt tfc	right traffic
lbs	pounds	RON	Remain Overnight
ldg	landing	rqr	require
lgt	lighted	rstd	restricted
lgts	lights	RSRS	reduced same runway separation
LMM	Compass locator at Middle Marker ILS	rw	runway
LOC	Localizer	Sat	Saturday
LOM	Compass locator at Outer Marker ILS	SELF	Strategic Expeditionary Landing Field
ltd	limited	Sep	September
MACC	Military Area Control Center	SFA	Single Frequency Approach
Mar	March	sfc	surface
MCAF	Marine Corps Air Facility	SFRA	Special Flight Rules Area
MCALF	Marine Corps Auxiliary Landing Field	SOAP	Spectrometric Oil Analysis Program
MCAS	Marine Corps Air Station	SOF	Supervisor of Flying
MCB	Marine Corps Base	SPB	Seaplane Base
med	medium	SR	sunrise
METRO	Pilot-to-Metro voice call	SS	sunset
Mil	military	std	standard
min	minute	Sun	Sunday
MLS	Microwave Landing System	svc	service
MM	Middle Marker of ILS	tfc	traffic
Mon	Monday	thld	threshold
MP	Maintenance Period	Thu	Thursday
MSL	mean sea level	tkf	take-off
MSAW	minimum safe altitude warning	tmp	temporary
NAAS	Naval Auxiliary Air Station	tran	transient
NADC	Naval Air Development Center	Tue	Tuesday
NADEP	Naval Air Depot	twr	tower
NAEC	Naval Air Engineering Center	twy	taxiway
NAES	Naval Air Engineering Station	UC	Under Construction
NAF	Naval Air Facility	USA	United States Army
NALCO	Naval Air Logistics Control Office	USAF	United States Air Force
NALO	Navy Air Logistics Office	USCG	United States Coast Guard
NALF	Naval Auxiliary Landing Field	USN	United States Navy
NAS	Naval Air Station	V	Defense Switching Network (telephone, formerly AUTOVON)
NAWC	Naval Air Warfare Center	VFR	Visual Flight Rules
NAWS	Naval Air Weapons Station	VIP	Very Important Person
ngt	night	VMC	Visual Meteorological Conditions
NOLF	Naval Outlying Field	Wed	Wednesday
Nov	November	wx	weather

# DIRECTORY LEGEND

## SAMPLE

① CITY NAME  
 ② AIRPORT NAME (ALTERNATE NAME) (LTS) (KLTS) CIV/MIL 3 N UTC-6(-5DT) N34°41.93' W99°20.20' JACKSONVILLE  
 ③ 200 B S4 FUEL 100 OX 1 TPA-1000(800) AOE Class IV, ARFF Index A NOTAM FILE ORL Not insp. COPTER  
 ④ ⑤ ⑥ ⑦ ⑧ ⑨ H-46, L-19C IAP, DIAP, AD

⑩ RWY 18-36: H12004X200 (ASPH-CONC-GRVD)  
 S-90, D-160, DT-300 PCN 80 R/B/W/T HIRL CL  
 RWY 18: LDIN. MALSF. TDZL. REIL. PAPI(P2R)—GA 3.0° TCH 36'.  
 Thld displcd 300'. Trees. Rgt tfc. 0.3% up.  
 RWY 36: ALSF1. 0.4% down.  
 RWY 09-27: H6000X150 (ASPH) MIRL  
 RWY 173-353: H3515X150 (ASPH-PFC) AUW PCN 59 F/A/W/T

⑪ LAND AND HOLD SHORT OPERATIONS  
 LANDING HOLD SHORT POINT DIST AVBL  
 RWY 18 09-27 6500  
 RWY 36 09-27 5400

⑫ RUNWAY DECLARED DISTANCE INFORMATION  
 RWY 18: TORA-12004 TODA-12704 ASDA-11704 LDA-11504  
 RWY 36: TORA-12004 TODA-12004 ASDA-12004 LDA-11704

⑬ ARRESTING GEAR/SYSTEM  
 RWY 18 → HOOK E5 (65' OVRN) BAK-14 BAK-12B (1650')  
 BAK-14 BAK-12 (B) (1087') HOOK E5 (74' OVRN) ← RWY 36

⑭ MILITARY SERVICE: A-GEAR E-5 connected on dep end, disconnected on  
 apch end. JASU 3(AM32A-60) 2(A/M32A-86)

⑮ ⑯ FUEL J8(Mil) (NC-100, A) FLUID W SP PRESAIR LOX  
 OIL O-128 TRAN ALERT Avbl 1300-0200Z†, svc limited weekends.

⑰ ⑱ AIRPORT REMARKS: Special Air Traffic Rules—Part 93, see Regulatory Notices. Attended 1200-0300Z†. Parachute  
 Jumping. Deer invov arpt. Heavy jumbo jet training surface to 9000'. Twy A clsd indef. Flight Notification Service  
 (ADCUS) avbl.

⑲ MILITARY REMARKS: ANG PPR/Official Business Only. Base OPS DSN 638-4390, C503-335-4222. Ctc Base OPS 15  
 minutes prior to ldg and after dep. Limited tran parking.

⑳ WEATHER DATA SOURCES: AWOS-1 120.3 (202) 426-8000. LLWAS.

㉑ COMMUNICATIONS: SFA ATIS 127.25 273.5 (202) 426-8003 UNICOM 122.95 PTD 372.2  
 NAME FSS (ORL) on arpt. 123.65 122.65 122.2  
 NAME RCO 112.2T 112.1R (NAME RADIO)  
 ⑳ NAME APP/DEP CON 128.35 257.725 (1200-0400Z†)  
 TOWER 119.65 255.6 (1200-0400Z†) GND CON 121.7 GCO 135.075 (ORLANDO CLNC) CLNC DEL 125.55  
 NAME COMD POST (GERONIMO) 311.0 321.4 6761 PMSV METRO 239.8 NAME OPS 257.5

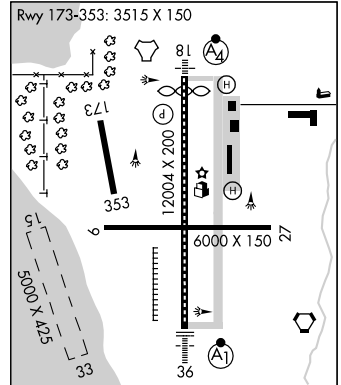
㉓ AIRSPACE: CLASS B See VFR Terminal Area Chart.

㉔ RADIO AIDS TO NAVIGATION: NOTAM FILE ORL. VHF/DF ctc FSS.  
 (H) VORTAC 112.2 MCO Chan 59 N28°32.55' W81°20.12' at fld. 1110/8E.  
 (H) TACAN Chan 29 CBU (109.2) N28°32.65' W81°21.12' at fld. 1115/8E.  
 HERNY NDB (LOM) 221 OR N28°37.40' W81°21.05' 177° 5.4 NM to fld.  
 ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.  
 ASR/PAR (1200-0400Z†)

㉕ COMM/NAV/WEATHER REMARKS: Emerg frequency 121.5 not avbl at twr.

HELIPAD H1: H100X75 (ASPH)  
 HELIPAD H2: H60X60 (ASPH)  
 HELIPOINT REMARKS: Helipad H1 lctd on general aviation side and H2 lctd on air carrier side of arpt.

187 TPA 1000(813)  
 WATERWAY 15-33: 5000X425 (WATER)  
 SEAPLANE REMARKS: Birds roosting and feeding areas along river banks. Seaplanes operating adjacent to SW side of  
 arpt not visible from twr and are required to ctc twr.



All bearings and radials are magnetic unless otherwise specified.  
 All mileages are nautical unless otherwise noted.

All times are Coordinated Universal Time (UTC) except as noted.

All elevations are in feet above/below Mean Sea Level (MSL) unless otherwise noted.

The horizontal reference datum of this publication is North American Datum of 1983 (NAD83), which for charting purposes is considered equivalent to World Geodetic System 1984 (WGS 84).

10

# SKETCH LEGEND

## RUNWAYS/LANDING AREAS

Hard Surfaced .....	
Metal Surface .....	
Sod, Gravel, etc. ....	
Light Plane, ....	
Ski Landing Area or Water	
Under Construction .....	
Closed .....	
Helicopter Landings Area .....	
Displaced Threshold .....	
Taxiway, Apron and Stopways ..	

## MISCELLANEOUS BASE AND CULTURAL FEATURES

Buildings .....	
Power Lines .....	
Fence .....	
Towers .....	
Tanks .....	
Oil Well .....	
Smoke Stack .....	
Obstruction .....	
Controlling Obstruction .....	
Trees .....	
Populated Places .....	
Cuts and Fills .....	
Cliffs and Depressions ..	
Ditch .....	
Hill .....	

## RADIO AIDS TO NAVIGATION

VORTAC ...		VOR .....	
VOR/DME ..		NDB .....	
TACAN ....		NDB/DME ....	

## MISCELLANEOUS AERONAUTICAL FEATURES

Airport Beacon .....	
Wind Cone .....	
Landing Tee .....	
Tetrahedron .....	
Control Tower .....	

## APPROACH LIGHTING SYSTEMS

A dot "•" portrayed with approach lighting letter identifier indicates sequenced flashing lights (F) installed with the approach lighting system e.g. (A1) Negative symbology, e.g., (A1) indicates Pilot Controlled Lighting (PCL).

Runway Centerline Lighting .....	
(A) Approach Lighting System ALSF-2 ..	
(A1) Approach Lighting System ALSF-1 ..	
(A2) Short Approach Lighting System SALS/SALSF .....	
(A3) Simplified Short Approach Lighting System (SSALR) with RAIL .....	
(A4) Medium Intensity Approach Lighting System (MALSR and MALSF)/(SSALS and SSALF) .....	
(A5) Medium Intensity Approach Lighting System (MALSR) and RAIL .....	
(+) Omnidirectional Approach Lighting System (ODALS) .....	
(D) Navy Parallel Row and Cross Bar ..	
(F) Air Force Overrun .....	
(V) Visual Approach Slope Indicator with Standard Threshold Clearance provided	
(V2) Pulsating Visual Approach Slope Indicator (PVASI)	
(V3) Visual Approach Slope Indicator with a threshold crossing height to accommodate long bodied or jumbo aircraft	
(V4) Tri-color Visual Approach Slope Indicator (TRCV)	
(V5) Approach Path Alignment Panel (APAP)	
(P) Precision Approach Path Indicator (PAPI)	

## LEGEND

This directory is a listing of data on record with the FAA on all open to the public airports, military facilities and selected private use facilities specifically requested by the Department of Defense (DoD) for which a DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures Publication. Additionally this listing contains data for associated terminal control facilities, air route traffic control centers, and radio aids to navigation within the conterminous United States, Puerto Rico and the Virgin Islands. Joint civil/military and civil airports are listed alphabetically by state, associated city and airport name and cross-referenced by airport name. Military facilities are listed alphabetically by state and official airport name and cross-referenced by associated city name. Nav aids, flight service stations and remote communication outlets that are associated with an airport, but with a different name, are listed alphabetically under their own name, as well as under the airport with which they are associated.

The listing of an open to the public airport in this directory merely indicates the airport operator's willingness to accommodate transient aircraft, and does not represent that the facility conforms with any Federal or local standards, or that it has been approved for use on the part of the general public. Military and private use facilities published in this directory are open to civil pilots only in an emergency or with prior permission. See Special Notice Section, Civil Use of Military Fields.

The information on obstructions is taken from reports submitted to the FAA. Obstruction data has not been verified in all cases. Pilots are cautioned that objects not indicated in this tabulation (or on the airports sketches and/or charts) may exist which can create a hazard to flight operation. Detailed specifics concerning services and facilities tabulated within this directory are contained in the Aeronautical Information Manual, Basic Flight Information and ATC Procedures.

The legend items that follow explain in detail the contents of this Directory and are keyed to the circled numbers on the sample on the preceding pages.

### ① CITY/AIRPORT NAME

Civil and joint civil/military airports and facilities in this directory are listed alphabetically by state and associated city. Where the city name is different from the airport name the city name will appear on the line above the airport name. Airports with the same associated city name will be listed alphabetically by airport name and will be separated by a dashed rule line. A solid rule line will separate all others. FAA approved helipads and seaplane landing areas associated with a land airport will be separated by a dotted line. Military airports are listed alphabetically by state and official airport name.

### ② ALTERNATE NAME

Alternate names, if any, will be shown in parentheses.

### ③ LOCATION IDENTIFIER

The location identifier is a three or four character FAA code followed by a four-character ICAO code assigned to airports. ICAO codes will only be published at joint civil/military, and military facilities. If two different military codes are assigned, both codes will be shown with the primary operating agency's code listed first. These identifiers are used by ATC in lieu of the airport name in flight plans, flight strips and other written records and computer operations. Zeros will appear with a slash to differentiate them from the letter "O".

### ④ OPERATING AGENCY

Airports within this directory are classified into two categories, Military/Federal Government and Civil airports open to the general public, plus selected private use airports. The operating agency is shown for military, private use and joint civil/military airports. The operating agency is shown by an abbreviation as listed below. When an organization is a tenant, the abbreviation is enclosed in parenthesis. No classification indicates the airport is open to the general public with no military tenant.

A	US Army	MC	Marine Corps
AFRC	Air Force Reserve Command	N	Navy
AF	US Air Force	NAF	Naval Air Facility
ANG	Air National Guard	NAS	Naval Air Station
AR	US Army Reserve	NASA	National Air and Space Administration
ARNG	US Army National Guard	P	US Civil Airport Wherein Permit Covers
CG	US Coast Guard		Use by Transient Military Aircraft
CIV/MIL	Joint Use Civil/Military	PVT	Private Use Only (Closed to the Public)
DND	Department of National Defense Canada		

### ⑤ AIRPORT LOCATION

Airport location is expressed as distance and direction from the center of the associated city in nautical miles and cardinal points, e.g., 4 NE.

### ⑥ TIME CONVERSION

Hours of operation of all facilities are expressed in Coordinated Universal Time (UTC) and shown as "Z" time. The directory indicates the number of hours to be subtracted from UTC to obtain local standard time and local daylight saving time UTC-5(-4DT). The symbol ‡ indicates that during periods of Daylight Saving Time effective hours will be one hour earlier than shown. In those areas where daylight saving time is not observed the (-4DT) and ‡ will not be shown. Daylight saving time is in effect from 0200 local time the second Sunday in March to 0200 local time the first Sunday in November. Canada and all U.S. Conterminous States observe daylight saving time except Arizona and Puerto Rico, and the Virgin Islands. If the state observes daylight saving time and the operating times are other than daylight saving times, the operating hours will include the dates, times and no ‡ symbol will be shown, i.e., April 15-Aug 31 0630-1700Z, Sep 1-Apr 14 0600-1700Z.

# **7 GEOGRAPHIC POSITION OF AIRPORT—AIRPORT REFERENCE POINT (ARP)**

Positions are shown as hemisphere, degrees, minutes and hundredths of a minute and represent the approximate geometric center of all usable runway surfaces.

# **8 CHARTS**

Charts refer to the Sectional Chart and Low and High Altitude Enroute Chart and panel on which the airport or facility is located. Helicopter Chart locations will be indicated as COPTER.

# **9 INSTRUMENT APPROACH PROCEDURES, AIRPORT DIAGRAM**

IAP indicates an airport for which a prescribed (Public Use) FAA Instrument Approach Procedure has been published. DIAP indicates an airport for which a prescribed DoD Instrument Approach Procedure has been published in the U.S. Terminal Procedures. See the Special Notice Section of this directory, Civil Use of Military Fields and the Aeronautical Information Manual 5-4-5 Instrument Approach Procedure Charts for additional information. AD indicates an airport for which an airport diagram has been published. Airport diagrams are located in the back of each A/FD volume alphabetically by associated city and airport name.

# **10 AIRPORT SKETCH**

The airport sketch, when provided, depicts the airport and related topographical information as seen from the air and should be used in conjunction with the text. It is intended as a guide for pilots in VFR conditions. Symbology that is not self-explanatory will be reflected in the sketch legend. The airport sketch will be oriented with True North at the top. Airport sketches will be added incrementally.

# **11 ELEVATION**

The highest point of an airport's usable runways measured in feet from mean sea level. When elevation is sea level it will be indicated as "00". When elevation is below sea level a minus "-" sign will precede the figure.

# **12 ROTATING LIGHT BEACON**

B indicates rotating beacon is available. Rotating beacons operate sunset to sunrise unless otherwise indicated in the AIRPORT REMARKS or MILITARY REMARKS segment of the airport entry.

# **13 SERVICING—CIVIL**

S1: Minor airframe repairs.	S5: Major airframe repairs.
S2: Minor airframe and minor powerplant repairs.	S6: Minor airframe and major powerplant repairs.
S3: Major airframe and minor powerplant repairs.	S7: Major powerplant repairs.
S4: Major airframe and major powerplant repairs.	S8: Minor powerplant repairs.

# **14 FUEL**

CODE	FUEL	CODE	FUEL
80	Grade 80 gasoline (Red)	B+	Jet B, Wide-cut, turbine fuel with FS-II*, FP** minus 50° C.
100	Grade 100 gasoline (Green)	J4 (JP4)	(JP-4 military specification) FP** minus 58° C.
100LL	100LL gasoline (low lead) (Blue)	J5 (JP5)	(JP-5 military specification) Kerosene with FS-11, FP** minus 46°C.
115	Grade 115 gasoline (115/145 military specification) (Purple)	J8 (JP8)	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C.
A	Jet A, Kerosene, without FS-II*, FP** minus 40° C.	J8+100	(JP-8 military specification) Jet A-1, Kerosene with FS-II*, FP** minus 47°C, with-fuel additive package that improves thermo stability characteristics of JP-8.
A+	Jet A, Kerosene, with FS-II*, FP** minus 40°C.	J	(Jet Fuel Type Unknown)
A1	Jet A-1, Kerosene, without FS-II*, FP** minus 47°C.	MOGAS	Automobile gasoline which is to be used as aircraft fuel.
A1+	Jet A-1, Kerosene with FS-II*, FP** minus 47° C.		
B	Jet B, Wide-cut, turbine fuel without FS-II*, FP** minus 50° C.		

\*(Fuel System Icing Inhibitor)

\*\*(Freeze Point)

**NOTE:** Certain automobile gasoline may be used in specific aircraft engines if a FAA supplemental type certificate has been obtained. Automobile gasoline, which is to be used in aircraft engines, will be identified as "MOGAS", however, the grade/type and other octane rating will not be published.

Data shown on fuel availability represents the most recent information the publisher has been able to acquire. Because of a variety of factors, the fuel listed may not always be obtainable by transient civil pilots. Confirmation of availability of fuel should be made directly with fuel suppliers at locations where refueling is planned.

# **15 OXYGEN—CIVIL**

OX 1 High Pressure	OX 3 High Pressure—Replacement Bottles
OX 2 Low Pressure	OX 4 Low Pressure—Replacement Bottles

# **16 TRAFFIC PATTERN ALTITUDE**

Traffic Pattern Altitude (TPA)—The first figure shown is TPA above mean sea level. The second figure in parentheses is TPA above airport elevation. Multiple TPA shall be shown as "TPA—See Remarks" and detailed information shall be shown in the Airport or Military Remarks Section. Traffic pattern data for USAF bases, USN facilities, and U.S. Army airports (including those on which ACC or U.S. Army is a tenant) that deviate from standard pattern altitudes shall be shown in Military Remarks.

**17 AIRPORT OF ENTRY, LANDING RIGHTS, AND CUSTOMS USER FEE AIRPORTS**

U.S. CUSTOMS USER FEE AIRPORT—Private Aircraft operators are frequently required to pay the costs associated with customs processing.

AOE—Airport of Entry. A customs Airport of Entry where permission from U.S. Customs is not required to land. However, at least one hour advance notice of arrival is required.

LRA—Landing Rights Airport. Application for permission to land must be submitted in advance to U.S. Customs. At least one hour advance notice of arrival is required.

NOTE: Advance notice of arrival at both an AOE and LRA airport may be included in the flight plan when filed in Canada or Mexico. Where Flight Notification Service (ADCUS) is available the airport remark will indicate this service. This notice will also be treated as an application for permission to land in the case of an LRA. Although advance notice of arrival may be relayed to Customs through Mexico, Canada, and U.S. Communications facilities by flight plan, the aircraft operator is solely responsible for ensuring that Customs receives the notification. (See Customs, Immigration and Naturalization, Public Health and Agriculture Department requirements in the International Flight Information Manual for further details.)

US Customs Air and Sea Ports, Inspectors and Agents

Northeast Sector (New England and Atlantic States—ME to MD) 407-975-1740

Southeast Sector (Atlantic States—DC, WV, VA to FL) 407-975-1780

Central Sector (Interior of the US, including Gulf states—MS, AL, LA) 407-975-1760

Southwest East Sector (OK and eastern TX) 407-975-1840

Southwest West Sector (Western TX, NM and AZ) 407-975-1820

Pacific Sector (WA, OR, CA, HI and AK) 407-975-1800

**18 CERTIFICATED AIRPORT (14 CFR PART 139)**

Airports serving Department of Transportation certified carriers and certified under 14 CFR part 139 are indicated by the Class and the ARFF Index; e.g. Class I, ARFF Index A, which relates to the availability of crash, fire, rescue equipment. Class I airports can have an ARFF Index A through E, depending on the aircraft length and scheduled departures. Class II, III, and IV will always carry an Index A.

14 CFR PART 139 CERTIFICATED AIRPORTS  
AIRPORT CLASSIFICATIONS

Type of Air Carrier Operation	Class I	Class II	Class III	Class IV
Scheduled Air Carrier Aircraft with 31 or more passenger seats	X			
Unscheduled Air Carrier Aircraft with 31 or more passengers seats	X	X		X
Scheduled Air Carrier Aircraft with 10 to 30 passenger seats	X	X	X	

**14 CFR—PART 139 CERTIFICATED AIRPORTS**

## INDICES AND AIRCRAFT RESCUE AND FIRE FIGHTING EQUIPMENT REQUIREMENTS

Airport Index	Required No. Vehicles	Aircraft Length	Scheduled Departures	Agent + Water for Foam
A	1	<90'	≥1	500#DC or HALON 1211 or 450#DC + 100 gal H <sub>2</sub> O
B	1 or 2	≥90', <126' ----- ≥126', <159'	≥5 ----- <5	Index A + 1500 gal H <sub>2</sub> O
C	2 or 3	≥126', <159' ----- ≥159', <200'	≥5 ----- <5	Index A + 3000 gal H <sub>2</sub> O
D	3	≥159', <200' ----- >200'	<5	Index A + 4000 gal H <sub>2</sub> O
E	3	≥200'	≥5	Index A + 6000 gal H <sub>2</sub> O

> Greater Than; < Less Than; ≥ Equal or Greater Than; ≤ Equal or Less Than; H<sub>2</sub>O—Water; DC—Dry Chemical.

NOTE: The listing of ARFF index does not necessarily assure coverage for non-air carrier operations or at other than prescribed times for air carrier. ARFF Index Ltd.—indicates ARFF coverage may or may not be available, for information contact airport manager prior to flight.

**19 NOTAM SERVICE**

All public use landing areas are provided NOTAM "D" (distant dissemination) and NOTAM "L" (local dissemination) service. Airport NOTAM file identifier is shown for individual airports, e.g. "NOTAM FILE IAD". See AIM, Basic Flight Information and



ATC Procedures for detailed description of NOTAM's. Current NOTAMS are available from Flight Service Stations at 1-800-WX-BRIEF. Real time Military NOTAMS are available using the DoD Internet NOTAM Distribution System (DINS) [www.notams.jcs.mil](http://www.notams.jcs.mil).

## 20 FAA INSPECTION

All airports not inspected by FAA will be identified by the note: Not insp. This indicates that the airport information has been provided by the owner or operator of the field.

## 21 RUNWAY DATA

Runway information is shown on two lines. That information common to the entire runway is shown on the first line while information concerning the runway ends is shown on the second or following line. Runway direction, surface, length, width, weight bearing capacity, lighting, and slope, when available are shown for each runway. Multiple runways are shown with the longest runway first. Direction, length, width, and lighting are shown for sea-lanes. The full dimensions of helipads are shown, e.g., 50X150. Runway data that requires clarification will be placed in the remarks section.

### RUNWAY DESIGNATION

Runways are normally numbered in relation to their magnetic orientation rounded off to the nearest 10 degrees. Parallel runways can be designated L (left)/R (right)/C (center). Runways may be designated as STOL, Ultralight, or assault strips. Assault strips are shown by magnetic bearing.

### RUNWAY DIMENSIONS

Runway length and width are shown in feet. Length shown is runway end to end including displaced thresholds, but excluding those areas designed as overruns.

### RUNWAY SURFACE AND LENGTH

Runway lengths prefixed by the letter "H" indicate that the runways are hard surfaced (concrete, asphalt, or part asphalt-concrete). If the runway length is not prefixed, the surface is sod, clay, etc. The runway surface composition is indicated in parentheses after runway length as follows:

(AFSC)—Aggregate friction seal coat	(GRVL)—Gravel, or cinders	(PSP)—Pierced steel plank
(ASPH)—Asphalt	(MATS)—Pierced steel planking, landing mats, membranes	(RFSC)—Rubberized friction seal coat
(CONC)—Concrete	(PEM)—Part concrete, part asphalt	(TURF)—Turf
(DIRT)—Dirt	(PFC)—Porous friction courses	(TRTD)—Treated
(GRVD)—Grooved		(WC)—Wire combed

### RUNWAY WEIGHT BEARING CAPACITY

Runway strength data shown in this publication is derived from available information and is a realistic estimate of capability at an average level of activity. It is not intended as a maximum allowable weight or as an operating limitation. Many airport pavements are capable of supporting limited operations with gross weights in excess of the published figures. Permissible operating weights, insofar as runway strengths are concerned, are a matter of agreement between the owner and user. When desiring to operate into any airport at weights in excess of those published in the publication, users should contact the airport management for permission. Runway strength figures are shown in thousand of pounds, with the last three figures being omitted. Add 000 to figure following S, D, 2S, 2T, AUW, SWL, etc., for gross weight capacity. A blank space following the letter designator is used to indicate the runway can sustain aircraft with this type landing gear, although definite runway weight bearing capacity figures are not available, e.g., S, D. Applicable codes for typical gear configurations with S=Single, D=Dual, T=Triple and Q=Quadruple:

CURRENT	NEW	NEW DESCRIPTION
S	S	Single wheel type landing gear (DC3), (C47), (F15), etc.
D	D	Dual wheel type landing gear (BE1900), (B737), (A319), etc.
T	D	Dual wheel type landing gear (P3, C9).
ST	2S	Two single wheels in tandem type landing gear (C130).
TRT	2T	Two triple wheels in tandem type landing gear (C17), etc.
DT	2D	Two dual wheels in tandem type landing gear (B707), etc.
TT	2D	Two dual wheels in tandem type landing gear (B757, KC135).
SBTT	2D/D1	Two dual wheels in tandem/dual wheel body gear type landing gear (KC10).
None	2D/2D1	Two dual wheels in tandem/two dual wheels in tandem body gear type landing gear (A340-600).
DDT	2D/2D2	Two dual wheels in tandem/two dual wheels in double tandem body gear type landing gear (B747, E4).
TTT	3D	Three dual wheels in tandem type landing gear (B777), etc.
TT	D2	Dual wheel gear two struts per side main gear type landing gear (B52).
TDT	C5	Complex dual wheel and quadruple wheel combination landing gear (C5).

AUW—All up weight. Maximum weight bearing capacity for any aircraft irrespective of landing gear configuration.

SWL—Single Wheel Loading. (This includes information submitted in terms of Equivalent Single Wheel Loading (ESWL) and Single Isolated Wheel Loading).

PSI—Pounds per square inch. PSI is the actual figure expressing maximum pounds per square inch runway will support, e.g., (SWL 000/PSI 535).

Omission of weight bearing capacity indicates information unknown.

The ACN/PCN System is the ICAO standard method of reporting pavement strength for pavements with bearing strengths greater than 12,500 pounds. The Pavement Classification Number (PCN) is established by an engineering assessment of the runway. The PCN is for use in conjunction with an Aircraft Classification Number (ACN). Consult the Aircraft Flight Manual, Flight Information Handbook, or other appropriate source for ACN tables or charts. Currently, ACN data may not be available for all aircraft. If an ACN table or chart is available, the ACN can be calculated by taking into account the aircraft weight, the pavement type, and the subgrade category. For runways that have been evaluated under the ACN/PCN system, the PCN will be shown as a five-part code (e.g. PCN 80 R/B/W/T). Details of the coded format are as follows:

- (1) The PCN NUMBER—The reported PCN indicates that an aircraft with an ACN equal or less than the reported PCN can operate on the pavement subject to any limitation on the tire pressure.
- (2) The type of pavement:
  - R — Rigid
  - F — Flexible
- (3) The pavement subgrade category:
  - A — High
  - B — Medium
  - C — Low
  - D — Ultra-low
- (4) The maximum tire pressure authorized for the pavement:
  - W — High, no limit
  - X — Medium, limited to 217 psi
  - Y — Low, limited to 145 psi
  - Z — Very low, limited to 73 psi
- (5) Pavement evaluation method:
  - T — Technical evaluation
  - U — By experience of aircraft using the pavement

NOTE: Prior permission from the airport controlling authority is required when the ACN of the aircraft exceeds the published PCN or aircraft tire pressure exceeds the published limits.

#### RUNWAY LIGHTING

Lights are in operation sunset to sunrise. Lighting available by prior arrangement only or operating part of the night and/or pilot controlled lighting with specific operating hours are indicated under airport or military remarks. At USN/USMC facilities lights are available only during airport hours of operation. Since obstructions are usually lighted, obstruction lighting is not included in this code. Unlighted obstructions on or surrounding an airport will be noted in airport or military remarks. Runway lights nonstandard (NSTD) are systems for which the light fixtures are not FAA approved L-800 series: color, intensity, or spacing does not meet FAA standards. Nonstandard runway lights, VASI, or any other system not listed below will be shown in airport remarks or military service. Temporary, emergency or limited runway edge lighting such as flares, smudge pots, lanterns or portable runway lights will also be shown in airport remarks or military service. Types of lighting are shown with the runway or runway end they serve.

NSTD—Light system fails to meet FAA standards.

LIRL—Low Intensity Runway Lights.

MIRL—Medium Intensity Runway Lights.

HIRL—High Intensity Runway Lights.

RAIL—Runway Alignment Indicator Lights.

REIL—Runway End Identifier Lights.

CL—Centerline Lights.

TDZL—Touchdown Zone Lights.

ODALS—Omni Directional Approach Lighting System.

AF OVRN—Air Force Overrun 1000' Standard Approach Lighting System.

LDIN—Lead-In Lighting System.

MALS—Medium Intensity Approach Lighting System.

MALSF—Medium Intensity Approach Lighting System with Sequenced Flashing Lights.

MALSR—Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights.

SALS—Short Approach Lighting System.

SALSF—Short Approach Lighting System with Sequenced Flashing Lights.

SSALS—Simplified Short Approach Lighting System.

SSALF—Simplified Short Approach Lighting System with Sequenced Flashing Lights.

SSALR—Simplified Short Approach Lighting System with Runway Alignment Indicator Lights.

ALSAF—High Intensity Approach Lighting System with Sequenced Flashing Lights.

ALSF1—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category I, Configuration.

ALSF2—High Intensity Approach Lighting System with Sequenced Flashing Lights, Category II, Configuration.

SF—Sequenced Flashing Lights.

OLS—Optical Landing System.

WAVE—OFF.

NOTE: Civil ALSF2 may be operated as SSALR during favorable weather conditions. When runway edge lights are positioned more than 10 feet from the edge of the usable runway surface a remark will be added in the "Remarks" portion of the airport entry. This is applicable to Air Force, Air National Guard and Air Force Reserve Bases, and those joint civil/military airfields on which they are tenants.

## VISUAL GLIDESLOPE INDICATORS

APAP—A system of panels, which may or may not be lighted, used for alignment of approach path.

PNIL APAP on left side of runway

PNIR APAP on right side of runway

PAPI—Precision Approach Path Indicator

P2L 2-identical light units placed on left side of runway

P4L 4-identical light units placed on left side of runway

P2R 2-identical light units placed on right side of runway

P4R 4-identical light units placed on right side of runway

PVASI—Pulsating/steady burning visual approach slope indicator, normally a single light unit projecting two colors.

PSIL PVASI on left side of runway

PSIR PVASI on right side of runway

SAVASI—Simplified Abbreviated Visual Approach Slope Indicator

S2L 2-box SAVASI on left side of runway

S2R 2-box SAVASI on right side of runway

TRCV—Tri-color visual approach slope indicator, normally a single light unit projecting three colors.

TRIL TRCV on left side of runway

TRIR TRCV on right side of runway

VASI—Visual Approach Slope Indicator

V2L 2-box VASI on left side of runway

V6L 6-box VASI on left side of runway

V2R 2-box VASI on right side of runway

V6R 6-box VASI on right side of runway

V4L 4-box VASI on left side of runway

V12 12-box VASI on both sides of runway

V4R 4-box VASI on right side of runway

V16 16-box VASI on both sides of runway

NOTE: Approach slope angle and threshold crossing height will be shown when available; i.e., -GA 3.5° TCH 37'.

## PILOT CONTROL OF AIRPORT LIGHTING

Key Mike	Function
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-Off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-Off)

Available systems will be indicated in the airport or military remarks, e.g., ACTIVATE HIRL Rwy 07–25, MALSR Rwy 07, and VASI Rwy 07—122.8.

Where the airport is not served by an instrument approach procedure and/or has an independent type system of different specification installed by the airport sponsor, descriptions of the type lights, method of control, and operating frequency will be explained in clear text. See AIM, "Basic Flight Information and ATC Procedures," for detailed description of pilot control of airport lighting.

## RUNWAY SLOPE

When available, runway slope data will only be provided for those airports with an approved FAA instrument approach procedure. Runway slope will be shown only when it is 0.3 percent or greater. On runways less than 8000 feet, the direction of the slope up will be indicated, e.g., 0.3% up NW. On runways 8000 feet or greater, the slope will be shown (up or down) on the runway end line, e.g., RWY 13: 0.3% up., RWY 21: Pole. Rgt tfc. 0.4% down.

## RUNWAY END DATA

Information pertaining to the runway approach end such as approach lights, touchdown zone lights, runway end identification lights, visual glideslope indicators, displaced thresholds, controlling obstruction, and right hand traffic pattern, will be shown on the specific runway end. "Rgt tfc"—Right traffic indicates right turns should be made on landing and takeoff for specified runway end.

## LAND AND HOLD SHORT OPERATIONS (LAHSO)

LAHSO is an acronym for "Land and Hold Short Operations." These operations include landing and holding short of an intersection runway, an intersecting taxiway, or other predetermined points on the runway other than a runway or taxiway. Measured distance represents the available landing distance on the landing runway, in feet.

Specific questions regarding these distances should be referred to the air traffic manager of the facility concerned. The Aeronautical Information Manual contains specific details on hold-short operations and markings.

## RUNWAY DECLARED DISTANCE INFORMATION

TORA—Take-off Run Available. The length of runway declared available and suitable for the ground run of an aeroplane take-off.

TODA—Take-off Distance Available. The length of the take-off run available plus the length of the clearway, if provided.

ASDA—Accelerate-Stop Distance Available. The length of the take-off run available plus the length of the stopway, if provided.

LDA—Landing Distance Available. The length of runway which is declared available and suitable for the ground run of an aeroplane landing.

## 22 ARRESTING GEAR/SYSTEMS

Arresting gear is shown as it is located on the runway. The a-gear distance from the end of the appropriate runway (or into the overrun) is indicated in parentheses. A-Gear which has a bi-direction capability and can be utilized for emergency approach end engagement is indicated by a (B). The direction of engaging device is indicated by an arrow. Up to 15 minutes advance notice may be required for rigging A-Gear for approach and engagement. Airport listing may show availability of other than US Systems. This information is provided for emergency requirements only. Refer to current aircraft operating manuals for specific engagement weight and speed criteria based on aircraft structural restrictions and arresting system limitations.

Following is a list of current systems referenced in this publication identified by both Air Force and Navy terminology:

## BI-DIRECTIONAL CABLE (B)

<u>TYPE</u>	<u>DESCRIPTION</u>
BAK-9	Rotary friction brake.
BAK-12A	Standard BAK-12 with 950 foot run out, 1-inch cable and 40,000 pound weight setting. Rotary friction brake.
BAK-12B	Extended BAK-12 with 1200 foot run, 1¼ inch Cable and 50,000 pounds weight setting. Rotary friction brake.
E28	Rotary Hydraulic (Water Brake).
M21	Rotary Hydraulic (Water Brake) Mobile.

The following device is used in conjunction with some aircraft arresting systems:

BAK-14	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to five seconds to fully raise the cable.)
H	A device that raises a hook cable out of a slot in the runway surface and is remotely positioned for engagement by the tower on request. (In addition to personnel reaction time, the system requires up to one and one-half seconds to fully raise the cable.)

## UNI-DIRECTIONAL CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>
MB60	Textile brake—an emergency one-time use, modular braking system employing the tearing of specially woven textile straps to absorb the kinetic energy.
E5/E5-1/E5-3	Chain Type. At USN/USMC stations E-5 A-GEAR systems are rated, e.g., E-5 RATING-13R-1100 HW (DRY), 31L/R-1200 STD (WET). This rating is a function of the A-GEAR chain weight and length and is used to determine the maximum aircraft engaging speed. A dry rating applies to a stabilized surface (dry or wet) while a wet rating takes into account the amount (if any) of wet overrun that is not capable of withstanding the aircraft weight. These ratings are published under Military Service.

## FOREIGN CABLE

<u>TYPE</u>	<u>DESCRIPTION</u>	<u>US EQUIVALENT</u>
44B-3H	Rotary Hydraulic (Water Brake)	
CHAG	Chain	E-5

## UNI-DIRECTIONAL BARRIER

<u>TYPE</u>	<u>DESCRIPTION</u>
MA-1A	Web barrier between stanchions attached to a chain energy absorber.
BAK-15	Web barrier between stanchions attached to an energy absorber (water squeezer, rotary friction, chain). Designed for wing engagement.

NOTE: Landing short of the runway threshold on a runway with a BAK-15 in the underrun is a significant hazard. The barrier in the down position still protrudes several inches above the underrun. Aircraft contact with the barrier short of the runway threshold can cause damage to the barrier and substantial damage to the aircraft.

## OTHER

<u>TYPE</u>	<u>DESCRIPTION</u>
EMAS	Engineered Material Arresting System, located beyond the departure end of the runway, consisting of high energy absorbing materials which will crush under the weight of an aircraft.

**23 MILITARY SERVICE**

Specific military services available at the airport are listed under this general heading. Remarks applicable to any military service are shown in the individual service listing.

**24 JET AIRCRAFT STARTING UNITS (JASU)**

The numeral preceding the type of unit indicates the number of units available. The absence of the numeral indicates ten or more units available. If the number of units is unknown, the number one will be shown. Absence of JASU designation indicates non-availability.

The following is a list of current JASU systems referenced in this publication:

USAF JASU (For variations in technical data, refer to T.O. 35-1-7.)

## ELECTRICAL STARTING UNITS:

A/M32A-86	AC: 115/200v, 3 phase, 90 kva, 0.8 pf, 4 wire DC: 28v, 1500 amp, 72 kw (with TR pack)
MC-1A	AC: 115/208v, 400 cycle, 3 phase, 37.5 kva, 0.8 pf, 108 amp, 4 wire DC: 28v, 500 amp, 14 kw
MD-3	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3A	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 1500 amp, 45 kw, split bus
MD-3M	AC: 115/208v, 400 cycle, 3 phase, 60 kva, 0.75 pf, 4 wire DC: 28v, 500 amp, 15 kw

MD-4	AC: 120/208v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 175 amp, "WYE" neutral ground, 4 wire, 120v, 400 cycle, 3 phase, 62.5 kva, 0.8 pf, 303 amp, "DELTA" 3 wire, 120v, 400 cycle, 1 phase, 62.5 kva, 0.8 pf, 520 amp, 2 wire
<b>AIR STARTING UNITS</b>	
AM32-95	150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia
AM32A-95	150 +/- 5 lb/min @ 49 +/- 2 psia (35 +/- 2 psig)
LASS	150 +/- 5 lb/min @ 49 +/- 2 psia
MA-1A	82 lb/min (1123 cfm) at 130° air inlet temp, 45 psia (min) air outlet press
MC-1	15 cfm, 3500 psia
MC-1A	15 cfm, 3500 psia
MC-2A	15 cfm, 200 psia
MC-11	8,000 cu in cap, 4000 psig, 15 cfm
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS:</b>	
AGPU	AC: 115/200v, 400 cycle, 3 phase, 30 kw gen DC: 28v, 700 amp AIR: 60 lb/min @ 40 psig @ sea level
AM32A-60*	AIR: 120 +/- 4 lb/min (1644 +/- 55 cfm) at 49 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire, 120v, 1 phase, 25 kva DC: 28v, 500 amp, 15 kw
AM32A-60A	AIR: 150 +/- 5 lb/min (2055 +/- 68 cfm) at 51 +/- 2 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
AM32A-60B*	AIR: 130 lb/min, 50 psia AC: 120/208v, 400 cycle, 3 phase, 75 kva, 0.75 pf, 4 wire DC: 28v, 200 amp, 5.6 kw
*NOTE: During combined air and electrical loads, the pneumatic circuitry takes preference and will limit the amount of electrical power available.	
<b>USN JASU</b>	
<b>ELECTRICAL STARTING UNITS:</b>	
NC-8A/A1	DC: 500 amp constant, 750 amp intermittent, 28v; AC: 60 kva @ .8 pf, 115/200v, 3 phase, 400 Hz.
NC-10A/A1/B/C	DC: 750 amp constant, 1000 amp intermittent, 28v; AC: 90 kva, 115/200v, 3 phase, 400 Hz.
<b>AIR STARTING UNITS:</b>	
GTC-85/GTE-85	120 lbs/min @ 45 psi.
MSU-200NAV/A/U47A-5	204 lbs/min @ 56 psia.
WELLS AIR START SYSTEM	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. Simultaneous multiple start capability.
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS:</b>	
NCPP-105/RCPT	180 lbs/min @ 75 psi or 120 lbs/min @ 45 psi. 700 amp, 28v DC. 120/208v, 400 Hz AC, 30 kva.
<b>JASU (ARMY)</b>	
59B2-1B	28v, 7.5 kw, 280 amp.
<b>OTHER JASU</b>	
<b>ELECTRICAL STARTING UNITS (DND):</b>	
CE12	AC 115/200v, 140 kva, 400 Hz, 3 phase
CE13	AC 115/200v, 60 kva, 400 Hz, 3 phase
CE14	AC/DC 115/200v, 140 kva, 400 Hz, 3 phase, 28vDC, 1500 amp
CE15	DC 22-35v, 500 amp continuous 1100 amp intermittent
CE16	DC 22-35v, 500 amp continuous 1100 amp intermittent soft start
<b>AIR STARTING UNITS (DND):</b>	
CA2	ASA 45.5 psig, 116.4 lb/min
<b>COMBINED AIR AND ELECTRICAL STARTING UNITS (DND)</b>	
CEA1	AC 120/208v, 60 kva, 400 Hz, 3 phase DC 28v, 75 amp AIR 112.5 lb/min, 47 psig
<b>ELECTRICAL STARTING UNITS (OTHER)</b>	
C-26	28v 45kw 115-200v 15kw 380-800 Hz 1 phase 2 wire
C-26-B, C-26-C	28v 45kw: Split Bus: 115-200v 15kw 380-800 Hz 1 phase 2 wire
E3	DC 28v/10kw
<b>AIR STARTING UNITS (OTHER):</b>	
A4	40 psi/2 lb/sec (LPAS Mk12, Mk12L, Mk12A, Mk1, Mk2B)
MA-1	150 Air HP, 115 lb/min 50 psia
MA-2	250 Air HP, 150 lb/min 75 psia
<b>CARTRIDGE:</b>	
MXU-4A	USAF

**(25) FUEL—MILITARY**

Fuel available through US Military Base supply, DESC Into-Plane Contracts and/or reciprocal agreement is listed first and is followed by (Mil). At commercial airports where Into-Plane contracts are in place, the name of the refueling agent is shown. Military fuel should be used first if it is available. When military fuel cannot be obtained but Into-Plane contract fuel is available, Government aircraft must refuel with the contract fuel and applicable refueling agent to avoid any breach in contract terms and conditions. Fuel not available through the above is shown preceded by NC (no contract). When fuel is obtained from NC sources, local purchase procedures must be followed. The US Military Aircraft Identaplates DD Form 1896 (Jet Fuel), DD Form 1897 (Avgas) and AF Form 1245 (Avgas) are used at military installations only. The US Government Aviation Into-Plane Reimbursement (AIR) Card (currently issued by AVCARD) is the instrument to be used to obtain fuel under a DESC Into-Plane Contract and for NC purchases if the refueling agent at the commercial airport accepts the AVCARD. A current list of contract fuel locations is available online at [www.desc.dla.mil/Static/ProductsAndServices.asp](http://www.desc.dla.mil/Static/ProductsAndServices.asp); click on the Commercial Airports button.

See legend item 14 for fuel code and description.

**(26) SUPPORTING FLUIDS AND SYSTEMS—MILITARY****CODE**

ADI	Anti-Detonation Injection Fluid—Reciprocating Engine Aircraft.
W	Water Thrust Augmentation—Jet Aircraft.
WAI	Water-Alcohol Injection Type, Thrust Augmentation—Jet Aircraft.
SP	Single Point Refueling.
PRESAIR	Air Compressors rated 3,000 PSI or more.
De-Ice	Anti-icing/De-icing/Defrosting Fluid (MIL-A-8243).

**OXYGEN:**

LPOX	Low pressure oxygen servicing.
HPOX	High pressure oxygen servicing.
LHOX	Low and high pressure oxygen servicing.
LOX	Liquid oxygen servicing.
ORXB	Oxygen replacement bottles. (Maintained primarily at Naval stations for use in acft where oxygen can be replenished only by replacement of cylinders.)
OX	Indicates oxygen servicing when type of servicing is unknown.

NOTE: Combinations of above items is used to indicate complete oxygen servicing available;

LHOXRB	Low and high pressure oxygen servicing and replacement bottles;
LPOXRB	Low pressure oxygen replacement bottles only, etc.

NOTE: Aircraft will be serviced with oxygen procured under military specifications only. Aircraft will not be serviced with medical oxygen.

**NITROGEN:**

LPNIT	Low pressure nitrogen servicing.
HPNIT	High pressure nitrogen servicing.
LHNIT	Low and high pressure nitrogen servicing.

**(27) OIL—MILITARY**

US AVIATION OILS (MIL SPECS):

CODE	GRADE, TYPE
O-113	1065, Reciprocating Engine Oil (MIL-L-6082)
O-117	1100, Reciprocating Engine Oil (MIL-L-6082)
O-117+	1100, O-117 plus cyclohexanone (MIL-L-6082)
O-123	1065, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type III)
O-128	1100, (Dispersant), Reciprocating Engine Oil (MIL-L-22851 Type II)
O-132	1005, Jet Engine Oil (MIL-L-6081)
O-133	1010, Jet Engine Oil (MIL-L-6081)
O-147	None, MIL-L-6085A Lubricating Oil, Instrument, Synthetic
O-148	None, MIL-L-7808 (Synthetic Base) Turbine Engine Oil
O-149	None, Aircraft Turbine Engine Synthetic, 7.5c St
O-155	None, MIL-L-6086C, Aircraft, Medium Grade
O-156	None, MIL-L-23699 (Synthetic Base), Turboprop and Turboshaft Engines
JOAP/SOAP	Joint Oil Analysis Program. JOAP support is furnished during normal duty hours, other times on request. (JOAP and SOAP programs provide essentially the same service, JOAP is now the standard joint service supported program.)

**(28) TRANSIENT ALERT (TRAN ALERT)—MILITARY**

Tran Alert service is considered to include all services required for normal aircraft turn-around, e.g., servicing (fuel, oil, oxygen, etc.), debriefing to determine requirements for maintenance, minor maintenance, inspection and parking assistance of transient aircraft. Drag chute repack, specialized maintenance, or extensive repairs will be provided within the capabilities and priorities of the base. Delays can be anticipated after normal duty hours/holidays/weekends regardless of the hours of transient maintenance operation. Pilots should not expect aircraft to be serviced for TURN-AROUNDS during time periods when servicing or maintenance manpower is not available. In the case of airports not operated exclusively by US military, the servicing indicated by the remarks will not always be available for US military

aircraft. When transient alert services are not shown, facilities are unknown. NO PRIORITY BASIS—means that transient alert services will be provided only after all the requirements for mission/tactical assigned aircraft have been accomplished.

## 29 AIRPORT REMARKS

The Attendance Schedule is the months, days and hours the airport is actually attended. Airport attendance does not mean watchman duties or telephone accessibility, but rather an attendant or operator on duty to provide at least minimum services (e.g., repairs, fuel, transportation).

Airport Remarks have been grouped in order of applicability. Airport remarks are limited to those items of information that are determined essential for operational use, i.e., conditions of a permanent or indefinite nature and conditions that will remain in effect for more than 30 days concerning aeronautical facilities, services, maintenance available, procedures or hazards, knowledge of which is essential for safe and efficient operation of aircraft. Information concerning permanent closing of a runway or taxiway will not be shown. A note "See Special Notices" shall be applied within this remarks section when a special notice applicable to the entry is contained in the Special Notices section of this publication.

Parachute Jumping indicates parachute jumping areas associated with the airport. See Parachute Jumping Area section of this publication for additional information.

Landing Fee indicates landing charges for private or non-revenue producing aircraft. In addition, fees may be charged for planes that remain over a couple of hours and buy no services, or at major airline terminals for all aircraft.

Note: Unless otherwise stated, remarks including runway ends refer to the runway's approach end.

## 30 MILITARY REMARKS

Military Remarks published at a joint Civil/Military facility are remarks that are applicable to the Military. At Military Facilities all remarks will be published under the heading Military Remarks. Remarks contained in this section may not be applicable to civil users. The first group of remarks is applicable to the primary operator of the airport. Remarks applicable to a tenant on the airport are shown preceded by the tenant organization, i.e., (A) (AF) (N) (ANG), etc. Military airports operate 24 hours unless otherwise specified. Airport operating hours are listed first (airport operating hours will only be listed if they are different than the airport attended hours or if the attended hours are unavailable) followed by pertinent remarks in order of applicability. Remarks will include information on restrictions, hazards, traffic pattern, noise abatement, customs/agriculture/immigration, and miscellaneous information applicable to the Military.

Type of restrictions:

CLOSED: When designated closed, the airport is restricted from use by all aircraft unless stated otherwise. Any closure applying to specific type of aircraft or operation will be so stated. USN/USMC/USAF airports are considered closed during non-operating hours. Closed airports may be utilized during an emergency provided there is a safe landing area.

OFFICIAL BUSINESS ONLY: The airfield is closed to all transient military aircraft for obtaining routine services such as fueling, passenger drop off or pickup, practice approaches, parking, etc. The airfield may be used by aircrews and aircraft if official government business (including civilian) must be conducted on or near the airfield and prior permission is received from the airfield manager.

AF OFFICIAL BUSINESS ONLY OR NAVY OFFICIAL BUSINESS ONLY: Indicates that the restriction applies only to service indicated.

PRIOR PERMISSION REQUIRED (PPR): Airport is closed to transient aircraft unless approval for operation is obtained from the appropriate commander through Chief, Airfield Management or Airfield Operations Officer. Official Business or PPR does not preclude the use of US Military airports as an alternate for IFR flights. If a non-US military airport is used as a weather alternate and requires a PPR, the PPR must be requested and confirmed before the flight departs. The purpose of PPR is to control volume and flow of traffic rather than to prohibit it. Prior permission is required for all aircraft requiring transient alert service outside the published transient alert duty hours. All aircraft carrying hazardous materials must obtain prior permission as outlined in AFJI 11-204, AR 95-27, OPNAVINST 3710.7.

Note: OFFICIAL BUSINESS ONLY AND PPR restrictions are not applicable to Special Air Mission (SAM) or Special Air Resource (SPAR) aircraft providing person or persons on board are designated Code 6 or higher as explained in AFJMAN 11-213, AR 95-11, OPNAVINST 3722-8J. Official Business Only or PPR do not preclude the use of the airport as an alternate for IFR flights.

## 31 WEATHER DATA SOURCES

Weather data sources will be listed alphabetically followed by their assigned frequencies and/or telephone number and hours of operation.

ASOS—Automated Surface Observing System. Reports the same as an AWOS-3 plus precipitation identification and intensity, and freezing rain occurrence (future enhancement).

AWOS—Automated Weather Observing System

AWOS-A—reports altimeter setting (all other information is advisory only).

AWOS-1—reports altimeter setting, wind data and usually temperature, dewpoint and density altitude.

AWOS-2—reports the same as AWOS-1 plus visibility.

AWOS-3—reports the same as AWOS-1 plus visibility and cloud/ceiling data.

See AIM, Basic Flight Information and ATC Procedures for detailed description of AWOS.

HIWAS—See RADIO AIDS TO NAVIGATION

LAWRS—Limited Aviation Weather Reporting Station where observers report cloud height, weather, obstructions to vision, temperature and dewpoint (in most cases), surface wind, altimeter and pertinent remarks.

LLWAS—indicates a Low Level Wind Shear Alert System consisting of a center field and several field perimeter anemometers.

SAWRS—identifies airports that have a Supplemental Aviation Weather Reporting Station available to pilots for current weather information.

SWSL—Supplemental Weather Service Location providing current local weather information via radio and telephone.

TDWR—indicates airports that have Terminal Doppler Weather Radar.

WSP—indicates airports that have Weather System Processor.

When the automated weather source is broadcast over an associated airport NAVAID frequency (see NAVAID line), it shall be indicated by a bold ASOS, AWOS, or HIWAS followed by the frequency, identifier and phone number, if available.

## **32 COMMUNICATIONS**

Airport terminal control facilities and radio communications associated with the airport shall be shown. When the call sign is not the same as the airport name the call sign will be shown. Frequencies shall normally be shown in descending order with the primary frequency listed first. Frequencies will be listed, together with sectorization indicated by outbound radials, and hours of operation. Communications will be listed in sequence as follows:

Single Frequency Approach (SFA), Common Traffic Advisory Frequency (CTAF), Automatic Terminal Information Service (ATIS) and Aeronautical Advisory Stations (UNICOM) or (AUNICOM) along with their frequency is shown, where available, on the line following the heading "COMMUNICATIONS." When the CTAF and UNICOM frequencies are the same, the frequency will be shown as CTAF/UNICOM 122.8.

The FSS telephone nationwide is toll free 1-800-WX-BRIEF (1-800-992-7433). When the FSS is located on the field it will be indicated as "on aprt". Frequencies available at the FSS will follow in descending order. Remote Communications Outlet (RCO) providing service to the airport followed by the frequency and FSS RADIO name will be shown when available.

FSS's provide information on airport conditions, radio aids and other facilities, and process flight plans. Airport Advisory Service (AAS) is provided on the CTAF by FSS's for select non-tower airports or airports where the tower is not in operation. (See AIM, Para 4-1-9 Traffic Advisory Practices at Airports Without Operating Control Towers or AC 90-42C.)

Aviation weather briefing service is provided by FSS specialists. Flight and weather briefing services are also available by calling the telephone numbers listed.

Remote Communications Outlet (RCO)—An unmanned air/ground communications facility that is remotely controlled and provides UHF or VHF communications capability to extend the service range of an FSS.

Civil Communications Frequencies—Civil communications frequencies used in the FSS air/ground system are operated on 122.0, 122.2, 123.6; emergency 121.5; plus receive-only on 122.1.

- a. 122.0 is assigned as the Enroute Flight Advisory Service frequency at selected FSS RADIO outlets.
- b. 122.2 is assigned as a common enroute frequency.
- c. 123.6 is assigned as the airport advisory frequency at select non-tower locations. At airports with a tower, FSS may provide airport advisories on the tower frequency when tower is closed.
- d. 122.1 is the primary receive-only frequency at VOR's.
- e. Some FSS's are assigned 50 kHz frequencies in the 122-126 MHz band (eg. 122.45). Pilots using the FSS A/G system should refer to this directory or appropriate charts to determine frequencies available at the FSS or remote facility through which they wish to communicate.

Emergency frequency 121.5 and 243.0 are available at all Flight Service Stations, most Towers, Approach Control and RADAR facilities.

Frequencies published followed by the letter "T" or "R", indicate that the facility will only transmit or receive respectively on that frequency. All radio aids to navigation (NAVAID) frequencies are transmit only.

### **TERMINAL SERVICES**

SFA—Single Frequency Approach.

CTAF—A program designed to get all vehicles and aircraft at airports without an operating control tower on a common frequency.

ATIS—A continuous broadcast of recorded non-control information in selected terminal areas.

D-ATIS—Digital ATIS provides ATIS information in text form outside the standard reception range of conventional ATIS via landline & data link communications and voice message within range of existing transmitters.

AUNICOM—Automated UNICOM is a computerized, command response system that provides automated weather, radio check capability and airport advisory information selected from an automated menu by microphone clicks.

UNICOM—A non-government air/ground radio communications facility which may provide airport information.

PTD—Pilot to Dispatcher.

APP CON—Approach Control. The symbol **Ⓡ** indicates radar approach control.

TOWER—Control tower.

GCA—Ground Control Approach System.

GND CON—Ground Control.

GCO—Ground Communication Outlet—An unstaffed, remotely controlled, ground/ground communications facility. Pilots at uncontrolled airports may contact ATC and FSS via VHF to a telephone connection to obtain an instrument clearance or close a VFR or IFR flight plan. They may also get an updated weather briefing prior to takeoff. Pilots will use four "key clicks" on the



VHF radio to contact the appropriate ATC facility or six "key clicks" to contact the FSS. The GCO system is intended to be used only on the ground.

DEP CON—Departure Control. The symbol  indicates radar departure control.

CLNC DEL—Clearance Delivery.

PRE TAXI CLNC—Pre taxi clearance.

VFR ADVSY SVC—VFR Advisory Service. Service provided by Non-Radar Approach Control.

Advisory Service for VFR aircraft (upon a workload basis) ctc APP CON.

COMD POST—Command Post followed by the operator call sign in parenthesis.

PMSV—Pilot-to-Metro Service call sign, frequency and hours of operation, when full service is other than continuous.

PMSV installations at which weather observation service is available shall be indicated, following the frequency and/or hours of operation as "Wx obsn svc 1900-0000Z+" or "other times" may be used when no specific time is given. PMSV facilities manned by forecasters are considered "Full Service". PMSV facilities manned by weather observers are listed as "Limited Service".

OPS—Operations followed by the operator call sign in parenthesis.

CON

RANGE

FLT FLW—Flight Following

MEDIVAC

NOTE: Communication frequencies followed by the letter "X" indicate frequency available on request.

## AIRSPACE

Information concerning Class B, C, and part-time D and E surface area airspace shall be published with effective times.

Class D and E surface area airspace that is continuous as established by Rulemaking Docket will not be shown.

CLASS B—Radar Sequencing and Separation Service for all aircraft in CLASS B airspace.

CLASS C—Separation between IFR and VFR aircraft and sequencing of VFR arrivals to the primary airport.

TRSA—Radar Sequencing and Separation Service for participating VFR Aircraft within a Terminal Radar Service Area.

Class C, D, and E airspace described in this publication is that airspace usually consisting of a 5 NM radius core surface area that begins at the surface and extends upward to an altitude above the airport elevation (charted in MSL for Class C and Class D). Class E surface airspace normally extends from the surface up to but not including the overlying controlled airspace.

When part-time Class C or Class D airspace defaults to Class E, the core surface area becomes Class E. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS E:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS E.

When a part-time Class C, Class D or Class E surface area defaults to Class G, the core surface area becomes Class G up to, but not including, the overlying controlled airspace. Normally, the overlying controlled airspace is Class E airspace beginning at either 700' or 1200' AGL. This will be formatted as:

**AIRSPACE: CLASS C** svc "times" ctc **APP CON** other times CLASS G, with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS D** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv:

or

**AIRSPACE: CLASS E** svc "times" other times CLASS G with CLASS E 700' (or 1200') AGL & abv.

**NOTE: AIRSPACE SVC "TIMES" INCLUDE ALL ASSOCIATED ARRIVAL EXTENSIONS.** Surface area arrival extensions for instrument approach procedures become part of the primary core surface area. These extensions may be either Class D or Class E airspace and are effective concurrent with the times of the primary core surface area. For example, when a part-time Class C, Class D or Class E surface area defaults to Class G, the associated arrival extensions will default to Class G at the same time. When a part-time Class C or Class D surface area defaults to Class E, the arrival extensions will remain in effect as Class E airspace.

**NOTE: CLASS E AIRSPACE EXTENDING UPWARD FROM 700 FEET OR MORE ABOVE THE SURFACE, DESIGNATED IN CONJUNCTION WITH AN AIRPORT WITH AN APPROVED INSTRUMENT PROCEDURE.**

Class E 700' AGL (shown as magenta vignette on sectional charts) and 1200' AGL (blue vignette) areas are designated when necessary to provide controlled airspace for transitioning to/from the terminal and enroute environments. Unless otherwise specified, these 700'/1200' AGL Class E airspace areas remain in effect continuously, regardless of airport operating hours or surface area status. These transition areas should not be confused with surface areas or arrival extensions.

(See Chapter 3, AIRSPACE, in the Aeronautical Information Manual for further details)



## CONTINUED FROM PRECEDING PAGE

The term VOR is, operationally, a general term covering the VHF omnidirectional bearing type of facility without regard to the fact that the power, the frequency protected service volume, the equipment configuration, and operational requirements may vary between facilities at different locations.

AB _____	Automatic Weather Broadcast.
DF _____	Direction Finding Service.
DME _____	UHF standard (TACAN compatible) distance measuring equipment.
DME(Y) _____	UHF standard (TACAN compatible) distance measuring equipment that require TACAN to be placed in the "Y" mode to receive DME.
GS _____	Glide slope.
H _____	Non-directional radio beacon (homing), power 50 watts to less than 2,000 watts (50 NM at all altitudes).
HH _____	Non-directional radio beacon (homing), power 2,000 watts or more (75 NM at all altitudes).
H-SAB _____	Non-directional radio beacons providing automatic transcribed weather service.
ILS _____	Instrument Landing System (voice, where available, on localizer channel).
IM _____	Inner marker.
ISMLS _____	Interim Standard Microwave Landing System.
LDA _____	Localizer Directional Aid.
LMM _____	Compass locator station when installed at middle marker site (15 NM at all altitudes).
LOM _____	Compass locator station when installed at outer marker site (15 NM at all altitudes).
MH _____	Non-directional radio beacon (homing) power less than 50 watts (25 NM at all altitudes).
MLS _____	Microwave Landing System.
MM _____	Middle marker.
OM _____	Outer marker.
S _____	Simultaneous range homing signal and/or voice.
SABH _____	Non-directional radio beacon not authorized for IFR or ATC. Provides automatic weather broadcasts.
SDF _____	Simplified Direction Facility.
TACAN _____	UHF navigational facility-omnidirectional course and distance information.
VOR _____	VHF navigational facility-omnidirectional course only.
VOR/DME _____	Collocated VOR navigational facility and UHF standard distance measuring equipment.
VORTAC _____	Collocated VOR and TACAN navigational facilities.
W _____	Without voice on radio facility frequency.
Z _____	VHF station location marker at a LF radio facility.

## ILS FACILITY PERFORMANCE CLASSIFICATION CODES

Codes define the ability of an ILS to support autoland operations. The two portions of the code represent Official Category and farthest point along a Category I, II, or III approach that the Localizer meets Category III structure tolerances.

Official Category: I, II, or III; the lowest minima on published or unpublished procedures supported by the ILS.

Farthest point of satisfactory Category III Localizer performance for Category I, II, or III approaches: A – 4 NM prior to runway threshold, B – 3500 ft prior to runway threshold, C – glide angle dependent but generally 750–1000 ft prior to threshold, T – runway threshold, D – 3000 ft after runway threshold, and E – 2000 ft prior to stop end of runway.

ILS information is tabulated as indicated in the following sample:

ILS/DME 108.5 I-ORL Chan 22 Rwy 18. Class IIE. LOM HERNY NDB.

ILS Facility Performance  
Classification Code

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL	MLS CHANNEL	VHF FREQUENCY	TACAN CHANNEL
500	108.10	18X	568	109.45	31Y	636	114.15	88Y
502	108.30	20X	570	109.55	32Y	638	114.25	89Y
504	108.50	22X	572	109.65	33Y	640	114.35	90Y
506	108.70	24X	574	109.75	34Y	642	114.45	91Y
508	108.90	26X	576	109.85	35Y	644	114.55	92Y
510	109.10	28X	578	109.95	36Y	646	114.65	93Y
512	109.30	30X	580	110.05	37Y	648	114.75	94Y
514	109.50	32X	582	110.15	38Y	650	114.85	95Y
516	109.70	34X	584	110.25	39Y	652	114.95	96Y
518	109.90	36X	586	110.35	40Y	654	115.05	97Y
520	110.10	38X	588	110.45	41Y	656	115.15	98Y
522	110.30	40X	590	110.55	42Y	658	115.25	99Y
524	110.50	42X	592	110.65	43Y	660	115.35	100Y
526	110.70	44X	594	110.75	44Y	662	115.45	101Y
528	110.90	46X	596	110.85	45Y	664	115.55	102Y
530	111.10	48X	598	110.95	46Y	666	115.65	103Y
532	111.30	50X	600	111.05	47Y	668	115.75	104Y
534	111.50	52X	602	111.15	48Y	670	115.85	105Y
536	111.70	54X	604	111.25	49Y	672	115.95	106Y
538	111.90	56X	606	111.35	50Y	674	116.05	107Y
540	108.05	17Y	608	111.45	51Y	676	116.15	108Y
542	108.15	18Y	610	111.55	52Y	678	116.25	109Y
544	108.25	19Y	612	111.65	53Y	680	116.35	110Y
546	108.35	20Y	614	111.75	54Y	682	116.45	111Y
548	108.45	21Y	616	111.85	55Y	684	116.55	112Y
550	108.55	22Y	618	111.95	56Y	686	116.65	113Y
552	108.65	23Y	620	113.35	80Y	688	116.75	114Y
554	108.75	24Y	622	113.45	81Y	690	116.85	115Y
556	108.85	25Y	624	113.55	82Y	692	116.95	116Y
558	108.95	26Y	626	113.65	83Y	694	117.05	117Y
560	109.05	27Y	628	113.75	84Y	696	117.15	118Y
562	109.15	28Y	630	113.85	85Y	698	117.25	119Y
564	109.25	29Y	632	113.95	86Y			
566	109.35	30Y	634	114.05	87Y			

## FREQUENCY PAIRING PLAN AND MLS CHANNELING

The following is a list of paired VOR/ILS VHF frequencies with TACAN channels and MLS channels.

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
2X	134.5	-	19Y	108.25	544	25X	108.80	-
2Y	134.55	-	20X	108.30	502	25Y	108.85	556
11X	135.4	-	20Y	108.35	546	26X	108.90	508
11Y	135.45	-	21X	108.40	-	26Y	108.95	558
12X	135.5	-	21Y	108.45	548	27X	109.00	-
12Y	135.55	-	22X	108.50	504	27Y	109.05	560
17X	108.00	-	22Y	108.55	550	28X	109.10	510
17Y	108.05	540	23X	108.60	-	28Y	109.15	562
18X	108.10	500	23Y	108.65	552	29X	109.20	-
18Y	108.15	542	24X	108.70	506	29Y	109.25	564
19X	108.20	-	24Y	108.75	554	30X	109.30	512

TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL	TACAN CHANNEL	VHF FREQUENCY	MLS CHANNEL
30Y	109.35	566	63X	133.60	-	95Y	114.85	650
31X	109.40	-	63Y	133.65	-	96X	114.90	-
31Y	109.45	568	64X	133.70	-	96Y	114.95	652
32X	109.50	514	64Y	133.75	-	97X	115.00	-
32Y	109.55	570	65X	133.80	-	97Y	115.05	654
33X	109.60	-	65Y	133.85	-	98X	115.10	-
33Y	109.65	572	66X	133.90	-	98Y	115.15	656
34X	109.70	516	66Y	133.95	-	99X	115.20	-
34Y	109.75	574	67X	134.00	-	99Y	115.25	658
35X	109.80	-	67Y	134.05	-	100X	115.30	-
35Y	109.85	576	68X	134.10	-	100Y	115.35	660
36X	109.90	518	68Y	134.15	-	101X	115.40	-
36Y	109.95	578	69X	134.20	-	101Y	115.45	662
37X	110.00	-	69Y	134.25	-	102X	115.50	-
37Y	110.05	580	70X	112.30	-	102Y	115.55	664
38X	110.10	520	70Y	112.35	-	103X	115.60	-
38Y	110.15	582	71X	112.40	-	103Y	115.65	666
39X	110.20	-	71Y	112.45	-	104X	115.70	-
39Y	110.25	584	72X	112.50	-	104Y	115.75	668
40X	110.30	522	72Y	112.55	-	105X	115.80	-
40Y	110.35	586	73X	112.60	-	105Y	115.85	670
41X	110.40	-	73Y	112.65	-	106X	115.90	-
41Y	110.45	588	74X	112.70	-	106Y	115.95	672
42X	110.50	524	74Y	112.75	-	107X	116.00	-
42Y	110.55	590	75X	112.80	-	107Y	116.05	674
43X	110.60	-	75Y	112.85	-	108X	116.10	-
43Y	110.65	592	76X	112.90	-	108Y	116.15	676
44X	110.70	526	76Y	112.95	-	109X	116.20	-
44Y	110.75	594	77X	113.00	-	109Y	116.25	678
45X	110.80	-	77Y	113.05	-	110X	116.30	-
45Y	110.85	596	78X	113.10	-	110Y	116.35	680
46X	110.90	528	78Y	113.15	-	111X	116.40	-
46Y	110.95	598	79X	113.20	-	111Y	116.45	682
47X	111.00	-	79Y	113.25	-	112X	116.50	-
47Y	111.05	600	80X	113.30	-	112Y	116.55	684
48X	111.10	530	80Y	113.35	620	113X	116.60	-
48Y	111.15	602	81X	113.40	-	113Y	116.65	686
49X	111.20	-	81Y	113.45	622	114X	116.70	-
49Y	111.25	604	82X	113.50	-	114Y	116.75	688
50X	111.30	532	82Y	113.55	624	115X	116.80	-
50Y	111.35	606	83X	113.60	-	115Y	116.85	690
51X	111.40	-	83Y	113.65	626	116X	116.90	-
51Y	111.45	608	84X	113.70	-	116Y	116.95	692
52X	111.50	534	84Y	113.75	628	117X	117.00	-
52Y	111.55	610	85X	113.80	-	117Y	117.05	694
53X	111.60	-	85Y	113.85	630	118X	117.10	-
53Y	111.65	612	86X	113.90	-	118Y	117.15	696
54X	111.70	536	86Y	113.95	632	119X	117.20	-
54Y	111.75	614	87X	114.00	-	119Y	117.25	698
55X	111.80	-	87Y	114.05	634	120X	117.30	-
55Y	111.85	616	88X	114.10	-	120Y	117.35	-
56X	111.90	538	88Y	114.15	636	121X	117.40	-
56Y	111.95	618	89X	114.20	-	121Y	117.45	-
57X	112.00	-	89Y	114.25	638	122X	117.50	-
57Y	112.05	-	90X	114.30	-	122Y	117.55	-
58X	112.10	-	90Y	114.35	640	123X	117.60	-
58Y	112.15	-	91X	114.40	-	123Y	117.65	-
59X	112.20	-	91Y	114.45	642	124X	117.70	-
59Y	112.25	-	92X	114.50	-	124Y	117.75	-
60X	133.30	-	92Y	114.55	644	125X	117.80	-
60Y	133.35	-	93X	114.60	-	125Y	117.85	-
61X	133.40	-	93Y	114.65	646	126X	117.90	-
61Y	133.45	-	94X	114.70	-	126Y	117.95	-
62X	133.50	-	94Y	114.75	648			
62Y	133.55	-	95X	114.80	-			

**(35) COMM/NAV/WEATHER REMARKS:**

These remarks consist of pertinent information affecting the current status of communications, NAVAIDs and weather.

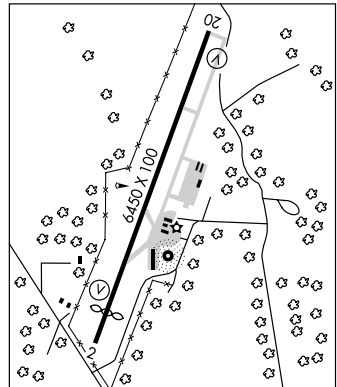
**ABERNATHY FLD** (See PULASKI)

**ARNOLD AFB** (KAYX)(AYX) AF 6 E UTC-6(-5DT) N35°23.55' W86°05.15' ATLANTA  
 1065 B NOTAM FILE BNA Not insp. H-6K, 9A, L-16J  
 RWY 03-21: H6000X150 (ASPH) PCN 35 F/B/X/T DIAP  
 RWY 03: REIL. VASI(V4L)—GA 3.0° TCH 45'.  
 RWY 21: REIL. VASI(V4L)—GA 3.0° TCH 45'.  
**RUNWAY DECLARED DISTANCE INFORMATION**  
 RWY 03: TORA-6000 TODA-6000  
 RWY 21: TORA-6000 TODA-6000  
**MILITARY SERVICE:** JASU A/M32-86, A/M32-60 **FUEL J8 OIL JOAP 24 hr PN TRAN ALERT** Tran maintenance support extremely limited.  
**MILITARY REMARKS:** PPR, CLOSED weekend and holidays. **RSTD** Official Business Only. PPR 24 hr prior notice rqr. Ctc Base OPS Mon-Fri 1300-2100Z±, DSN 340-7752/7689, C931-454-7752/7689 for PPR number.  
**CAUTION:** Deer and bird haz. Ctc Base OPS 10 min prior to ldg for arr info and wildlife watch update. Ldg at pilot's discretion. C-130 airdrop or copter opr in vicinity possible. **TFC PAT** Overhead 2500'. Avoid overflight of large rocket test facility 1 NM E.  
**WEATHER DATA SOURCES:** AWOS-3 128.325. C931-454-2052.  
**COMMUNICATIONS:** CTAF/UNICOM 126.2 257.975  
 Ⓡ **MEMPHIS APP/DEP CON** 126.75 353.5  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.  
 SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72' W86°26.35' 121° 20.1 NM to fld. 814/01W.  
 TULLAHOA RGNL (T) VORW 109.65 UXM N35°22.83' W86°14.75' 088° 7.9 NM to fld.

**ARNOLD FLD** (See HALLS)

**ATHENS**

**McMINN CO** (MMI) 3 SE UTC-5(-4DT) N35°23.95' W84°33.71' ATLANTA  
 875 B S4 **FUEL** 100LL, JET A NOTAM FILE BNA H-9A, 12F, L-25A  
 RWY 02-20: H6450X100 (ASPH) S-30, D-42 MIRL 0.8% up N IAP  
 RWY 02: REIL. SAVASI(S2L). Thld dsplcd 949'. Trees.  
 RWY 20: REIL. SAVASI(S2L). Trees.  
**AIRPORT REMARKS:** Attended 1330-1030Z±. PAEW invof Rwy 02-20.  
**WEATHER DATA SOURCES:** AWOS-3 125.425 (423) 745-3422.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
 Ⓡ **KNOXVILLE APP/DEP CON** 123.9  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSV.  
 HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86'  
 W84°58.71' 140° 30.6 NM to fld. 3040/02W. **HIWAS**.  
 NDB (MHW) 242 MMI N35°23.68' W84°33.70' at fld.  
 NOTAM FILE BNA. NDB unmonitored 0130-1330Z±.



**BEECH RIVER RGNL** (See LEXINGTON-PARSONS)

**BENFI** N35°44.53' W84°04.87' NOTAM FILE TYS. ATLANTA  
 NDB (LOM) 353 TY 049° 5.9 NM to Mc Ghee Tyson. L-25B

**BENTON**

**CHILHOWEE GLIDERPORT** (92A) 4 NE UTC-5(-4DT) N35°13.59' W84°35.10' ATLANTA  
 770 NOTAM FILE BNA  
 RWY 03-21: 2600X200 (TURF)  
 RWY 03: Thld dsplcd 400'. P-line. RWY 21: Thld dsplcd 200'. P-line. Rgt tfc.  
**AIRPORT REMARKS:** Attended irregularly. Rwy 03-21 surface uneven. Rwy 03-21 center 50 ft portion only marked with in-ground white painted markers. Rwy 03-21 dsplcd thlds marked with in-ground white painted markers. Rwy 03-21 thld marked with in-ground white painted markers.  
**COMMUNICATIONS:** CTAF 122.9

**BENTON CO** (See CAMDEN)**BOILING FORK** N35°10.68' W86°04.09' NOTAM FILE BNA.

NDB (MHW) 263 BGF at Winchester Muni. Unmonitored 0000–1400Z‡.

ATLANTA

L-16J

**BOLIVAR****WILLIAM L. WHITEHURST FLD** (MØ8) 4 SW UTC-6(-5DT) N35°12.91' W89°02.59'

MEMPHIS

H-6J

IAP

499 S4 FUEL 100LL NOTAM FILE MKL

RWY 01-19: H5000X75 (ASPH) MIRL

RWY 01: SAVASI(S2L)—TCH 26'. Trees.

RWY 19: SAVASI(S2L)—TCH 22'. Trees.

**AIRPORT REMARKS:** Attended Oct–Mar Mon–Sat 1430–2230Z‡, Sun

1600–2230Z‡, Apr–Sep Mon–Sat 1430–2300Z‡, Sun

1600–2230Z‡. After hours svc call 731-658-6436.

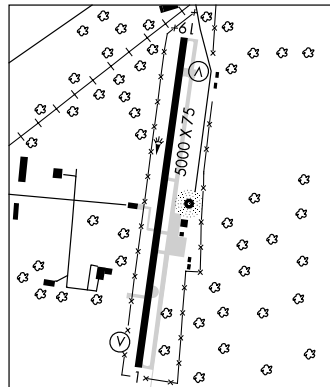
**WEATHER DATA SOURCES:** AWOS-3 121.125 (901) 658-6436.**COMMUNICATIONS:** CTAF/UNICOM 123.0Ⓡ **MEMPHIS CENTER APP/DEP CON** 124.35**RADIO AIDS TO NAVIGATION:** NOTAM FILE GWO.**HOLLY SPRINGS (L) VORTAC** 112.4 HLI Chan 71 N34°46.22'

W89°29.79' 037° 34.7 NM to fld. 630/03E.

**HARDEMAN NDB (MHW)** 404 BAV N35°12.86' W89°02.53' at

fld. NOTAM FILE MKL.

NDB unmonitored 2300–1500Z‡. NDB unusable byd 20 NM.

**BOMAR FLD-SHELBYVILLE MUNI** (See SHELBYVILLE)**BOOIE** N36°23.92' W82°29.77' NOTAM FILE TRI.

CINCINNATI

NDB (MHW/LOM) 221 BO 047° 6.3 NM to Tri-Cities Rgnl TN/VA. Unmonitored when twr closed.

L-25C

**BRISTOL** N36°28.51' W82°24.24'

CINCINNATI

RC0 122.2 (NASHVILLE RADIO) at Tri-Cities Rgnl TN/VA.

L-25C

# BRISTOL/JOHNSON/KINGSPORT

TRI—CITIES RGNL TN/VA (TRI) 12SW UTC−5(−4DT) N36°28.51′ W82°24.45′

1519 B S4 FUEL 100LL, JET A OX 1, 2 Class I, ARFF Index B

NOTAM FILE TRI

RWY 05−23: H8000X150 (ASPH−GRVD) S−100, D−150, ST−175,

DT−210 HIRL CL

RWY 05: VASI(V4L)—GA 3.0°TCH 55′. Trees. 0.4% up.

RWY 23: ALSF2. TDZL. PAPI(P4R). Trees.

RWY 09−27: H4442X150 (ASPH) S−30, D−50, DT−95 MIRL

RWY 09: Tree. RWY 27: REIL. PAPI(P4L).

AIRPORT REMARKS: Attended continuously. U.S. customs user fee arpt.

ALSF 2 Rwy 23 and HIRL Rwy 05−23 opr med ints when twr clsd.

MIRL Rwy 09−27 and REIL Rwy 27 not avbl when twr clsd.

WEATHER DATA SOURCES: ASOS (423) 279−0363. LLWAS.

COMMUNICATIONS: CTAF 119.5 ATIS 118.25 UNICOM 122.95

BRISTOL RCO 122.2 (NASHVILLE RADIO)

(R) APP CON 134.425 (047°−227°) 125.5 (228°−046°) 119.25  
(1100−0500Z‡)

TOWER 119.5 (1100−0500Z‡) GND CON 121.7

(R) DEP CON 134.425 (047°−227°) 125.5 (228°−046°)(1100−0500Z‡)

(R) ATLANTA CENTER APP/DEP CON 127.85 (0500−1100Z‡)

AIRSPACE: CLASS D svc 1100−0500Z‡ other times CLASS E.

TRSA svc ctc APP CON

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

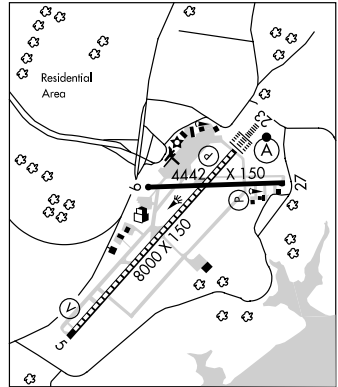
HOLSTON MOUNTAIN (L) VORTAC 114.6 HNV Chan 93 N36°26.22′ W82°07.78′ 284° 13.6 NM to fld.  
4321/04W.

BOOIE NDB (MHW/LOM) 221 BO N36°23.91′ W82°29.77′ 047° 6.3 NM to fld. NOTAM FILE TRI.  
(Unmonitored when twr closed).

MOCCA NDB (LOM) 299 TR N36°33.32′ W82°19.08′ 226° 6.5 NM to fld.

ILS 109.9 I−TRI Rwy 23. Class IIE. LOM MOCCA NDB. BC unusable. ILS and MOCCA LOM unmonitored  
when twr clsd. Localizer unusable byd 10 degrees rgt of course.

ILS 111.5 I−BON Rwy 05. Class IB. LOM BOOIE NDB. Glideslope unusable byd 5 degrees rgt of LOC  
course. Localizer unusable byd 25 degrees left of centerline. Localizer unusable and NDB LOM unmonitored  
when twr clsd.



# BROWNSVILLE

THORNTON (47M) 6 NE UTC−6(−5DT) N35°41.12′ W89°12.27′

MEMPHIS

351 NOTAM FILE MKL

RWY 17−35: 2000X150 (TURF)

RWY 17: Trees. RWY 35: Trees.

AIRPORT REMARKS: Unattended. Rwy 17−35 soft when wet. Rwy 17−35 needs mowing and surface uneven.

COMMUNICATIONS: CTAF 122.9

BURWI N35°27.70′ W86°14.50′ NOTAM FILE BNA.

ATLANTA

NDB (MHW) 332 ULH 184° 4.9 NM to Tullahoma Rgnl/WM Northern Fld. Unmonitored 0000−1400Z‡.

L−16J



**CAMDEN****BENTON CO** (ØM4) 3 S UTC-6(-5DT) N36°00.57' W88°07.48'

468 B S4 FUEL 100LL, JET A NOTAM FILE MKL

RWY 04-22: H5001X75 (ASPH) S-30 MIRL

RWY 04: REIL. PAPI(P2R). Trees

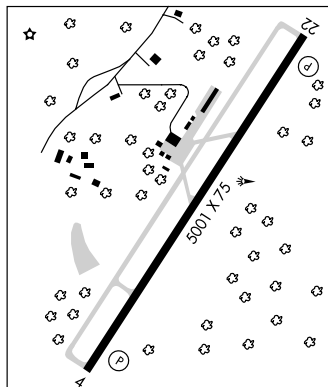
RWY 22: REIL. PAPI(P2L). Trees.

**AIRPORT REMARKS:** Attended 1300-2300Z†. Arpt unattended

Thanksgiving, Christmas and New Year's Day. For arpt attendant after hrs call 731-584-3609/5187. Trees obscure view of windsock from approaching and departing acft on Rwy 04. Rwy 04 REIL OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® MEMPHIS CENTER APP/DEP CON 125.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.JACKS CREEK (L) VOR/DME 109.4 JKS Chan 31 N35°35.94'  
W88°21.53' 023° 27.2 NM to fld. 630/02E.ST LOUIS  
H-6J, L-16J  
IAP**CAMPBELL CO** (See JACKSBORO)**CARROLL CO** (See HUNTINGDON)**CENTERVILLE MUNI** (GHM) 3 N UTC-6(-5DT) N35°50.25' W87°26.72'

768 B FUEL 100LL NOTAM FILE MKL

RWY 02-20: H4002X75 (ASPH) S-21, D-31 MIRL

RWY 02: SAVASI(S2L)—GA 4.0°TCH 26'. Pole. Trees.

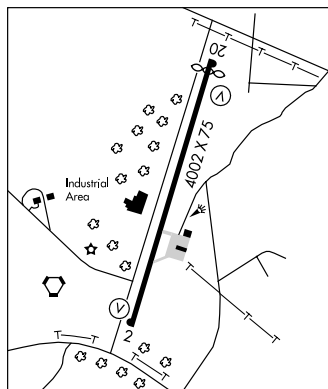
RWY 20: REIL. SAVASI(S2L). Thld displcd 250'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†. For attendant other hrs call 931-729-0007. MIRL Rwy 02-20 preset low ints; to increase ints ACTIVATE—CTAF.**COMMUNICATIONS:** CTAF/UNICOM 122.8

GRAHAM RCO 122.1R 111.6T (JACKSON RADIO)

GRAHAM RCO 122.25 (JACKSON RADIO)

® MEMPHIS CENTER APP/DEP CON 125.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.GRAHAM (L) VORTAC 111.6 GHM Chan 53 N35°50.04'  
W87°27.11' at fld. 770/03E.ATLANTA  
L-16I  
IAP**CHARLES W BAKER** (See MILLINGTON)

# CHATTANOOGA

**DALLAS BAY SKY PARK** (1A0) 11 N UTC-5(-4DT) N35°11.25' W85°10.66'

ATLANTA  
L-25A

690 B FUEL 100LL NOTAM FILE BNA

RWY 05-23: H3025X50 (ASPH) LIRL

RWY 05: Thld dsplcd 200'. Tree.

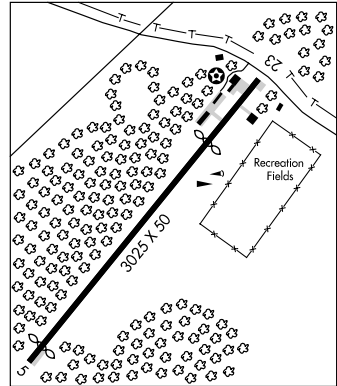
RWY 23: Thld dsplcd 700'. Trees. Rgt tfc.

**AIRPORT REMARKS:** Attended Mon-Sat 1330-0000Z, Sun 1800-2300Z. ACTIVATE LIRL Rwy 05-23 and rotating bcn-123.0.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CHA.

CHOO CHOO (H) VORTAC 115.8 GQO Chan 105 N34°57.68' W85°09.20' 354° 13.6 NM to fld. 1030/01E. HIWAS.



**LOVELL FLD** (CHA) 5 E UTC-5(-4DT) N35°02.11' W85°12.21'

ATLANTA  
H-9A, 12F, L-25A  
IAP, AD

683 B S4 FUEL 100LL, JET A OX 1, 3 LRA Class I, ARFF Index B

NOTAM FILE CHA

RWY 02-20: H7400X150 (ASPH-GRVD) S-120, D-160, ST-175, DT-265 HIRL CL

RWY 02: MALSR. VASI(V4R)—GA 3.0°TCH 56'.

RWY 20: ALSF2. TDZL. Railroad.

RWY 15-33: H5575X150 (ASPH) S-120, D-160, ST-175, DT-265 MIRL

RWY 15: PAPI(P4L)—GA 3.0° TCH 45'. Thld dsplcd 105'. Trees.

RWY 33: PAPI(P4L)—GA 3.0° TCH 47'. Thld dsplcd 575'. Trees.

## RUNWAY DECLARED DISTANCE INFORMATION

RWY 02: TORA-7400 TODA-7400 ASDA-7201 LDA-7201

RWY 20: TORA-7400 TODA-7400 ASDA-7400 LDA-7400

RWY 15: TORA-5575 TODA-5575 ASDA-5575 LDA-5470

RWY 33: TORA-5470 TODA-5470 ASDA-5470 LDA-5000

**AIRPORT REMARKS:** Attended continuously. Large flocks of birds invof arpt. Transient acft avoid security zone within 300 ft of terminal building. Read back all hold short instructions rqrd. ACTIVATE HIRL and CL Rwy 02-20; TDZL Rwy 20, MALSR Rwy 02—CTAF. MIRL Rwy 15-33 unavailable when twr clsd. ALSF2 Rwy 20 ops med intensity when twr clsd. Flight Notification Service (ADCUS) available.

**WEATHER DATA SOURCES:** ASOS (423) 499-5973. LLWAS.

**COMMUNICATIONS:** CTAF 118.3 ATIS 119.85 UNICOM 122.95

CHATTANOOGA RCO 123.65 122.2 (NASHVILLE RADIO)

Ⓡ CHATTANOOGA APP CON 125.1 (021°-199°) 119.2 (200°-020°) 126.5 (1100-0450Z)

CHATTANOOGA TOWER 118.3 (1100-0450Z) GND CON 121.7 CLNC DEL 120.95

Ⓡ CHATTANOOGA DEP CON 125.1 (021°-199°) 119.2 (200°-020°) (1100-0450Z)

ATLANTA CENTER APP/DEP CON 132.05 (0450-1100Z)

**AIRSPACE:** CLASS C svc 1100-0450Z ctc APP CON other times CLASS E.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CHA.

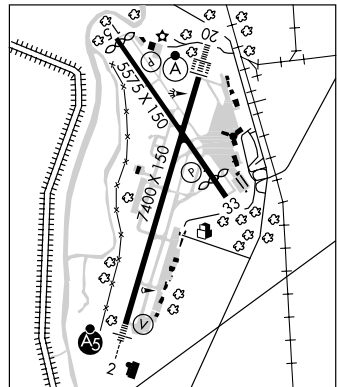
CHOO CHOO (H) VORTAC 115.8 GQO Chan 105 N34°57.68' W85°09.20' 330° 5.1 NM to fld. 1030/01E. HIWAS.

DAISY NDB (HW) 341 CQN N35°09.99' W85°09.44' 198° 8.2 NM to fld (Unmonitored when twr clsd).

ILS 109.5 I-CHA Rwy 20. Class IIE. ILS unmonitored when twr clsd.

ILS 108.3 I-CGW Rwy 02. Class IB. BC unusable. ILS unmonitored when twr clsd. GS unusable byd 4° left of course.

ASR (1100-0450Z)



**CHATTANOOGA** N35°02.12' W85°12.23'

ATLANTA  
L-25A

RCO 123.65 122.2 (NASHVILLE RADIO) at Lovell Fld.

**CHILHOWEE GLIDERPORT** (See BENTON)

**CHOO CHOO** N34°57.68' W85°09.20' NOTAM FILE CHA.  
 (H) VORTAC 115.8 GQO Chan 105 330° 5.1 NM to Lovell Fld. 1030/01E. HIWAS.  
 RCO 122.1R 115.8T (MACON RADIO)

ATLANTA  
 H-9A, 12F, L-25A

**CLARKSVILLE** N36°37.32' W87°24.76' NOTAM FILE CKV.  
 (T) VOR/DME 110.6 CKV Chan 43 at Outlaw Fld. 540/01W.  
 VOR portion unusable 090°-110° byd 20 NM.  
 RCO 122.1R 110.6T (JACKSON RADIO)

ST LOUIS  
 L-16I

**CLARKSVILLE**

**OUTLAW FLD** (CKV) 6 NW UTC-6(-5DT) N36°37.31' W87°24.90'  
 550 B S4 FUEL 100LL, JET A+ TPA-1500 (950) NOTAM FILE CKV

ST LOUIS  
 H-6K, 9A, L-16I  
 IAP

RWY 17-35: H6000X100 (ASPH) S-60, D-90 MRL

RWY 17: REIL. PAPI(P2L)—GA 3.0° TCH 50'. Tree.

RWY 35: MALS. PAPI(P2L). TCH 50'. Trees. Rgt tfc.

RWY 05-23: H4004X100 (ASPH) S-40, D-60

RWY 05: Thld dsplcd 402'. Tree. Rgt tfc.

RWY 23: Thld dsplcd 503'. Tree.

**AIRPORT REMARKS:** Attended Oct-Apr 1400-0000Z†, May-Sep 1400-0200Z†. Arpt unattended Christmas. For svc after hrs call 931-320-7753. Parachute Jumping. Extensive military and civil flight training within arpt area. Deer on and invof arpt. ACTIVATE REIL Rwy 17 and MALS Rwy 35—CTAF.

**WEATHER DATA SOURCES:** ASOS 134.575 (931) 431-3045.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

CLARKSVILLE RCO 122.1R 110.6T (JACKSON RADIO)

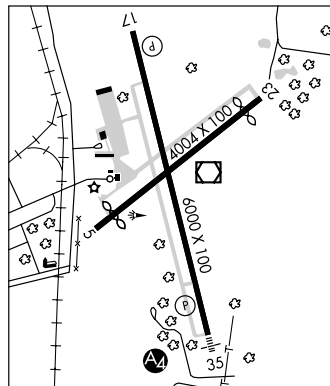
® CAMPBELL APP/DEP CON 134.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CKV.

CLARKSVILLE (T) VOR/DME 110.6 CKV Chan 43 N36°37.32' W87°24.76' at fld. 540/01W.

SNUFF NDB (LOM) 335 CK N36°31.62' W87°23.19' 345° 5.9 NM to fld. NDB unusable byd 10 NM.

ILS 111.7 I-CKV Rwy 35. LOM SNUFF NDB. LOC only.

**CLEVELAND**

**HARDWICK FLD** (HDI) 4 NE UTC-5(-4DT) N35°13.20' W84°49.95'

ATLANTA  
 L-25A  
 IAP

874 B FUEL 100LL NOTAM FILE BNA

RWY 03-21: H3300X75 (ASPH) S-17, D-23 LIRL 1.4% up NE

RWY 03: REIL. SAVASI(S2L). Trees.

RWY 21: REIL. SAVASI(S2L). Trees.

**AIRPORT REMARKS:** Attended 1300-2000Z†. Arpt unattended Christmas and New Years day. Deer on and invof arpt. Recommended high performance acft land Rwy 03, tkf Rwy 21 when wind condition not a factor due to rwy gradient and apch obstructions.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

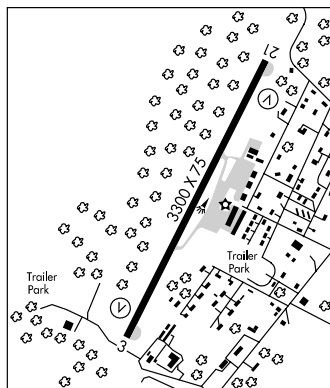
® CHATTANOOGA APP/DEP CON 125.1 (1100-0450Z†)

ATLANTA CENTER APP/DEP CON 132.05 (0450-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CHA.

CHOO CHOO (H) VORTAC 115.8 GQO Chan 105 N34°57.68' W85°09.20' 044° 22.1 NM to fld. 1030/01E. HIWAS.

NDB (MHW) 369 HDI N35°09.22' W84°54.35' 043° 5.4 NM to fld. NOTAM FILE BNA.



**CLIFTON**

**HASSELL FLD** (M29) 1 E UTC-6(-5DT) N35°23.10' W87°58.05'

ATLANTA  
L-161

401 B NOTAM FILE MKL

RWY 02-20: H4600X75 (ASPH) S-30 MIRL

RWY 02: REIL. SAVASI(S2L)—GA 4.0°TCH 42'. Tree.

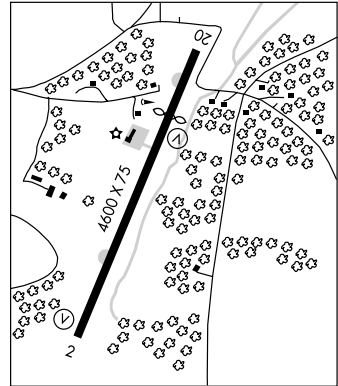
RWY 20: REIL. SAVASI(S2L). Thld dsplcd 1108'. Trees.

**AIRPORT REMARKS:** Unattended. Waterfowl invof arpt. Numerous small cracks in rwy. Rwy 02-20 extensive cracking with vegetation. Rwy 02-20 from NE end land rises rapidly to 14 ft at 400 ft past departure end SW. Bcn OTS indef. Rwy 02 REIL OTS indef. Rwy 20 REIL OTS indef. Rwy 02 SAVASI OTS indef. RWY 02-20 MIRL OTS indef. Rwy 20 SAVASI OTS indef.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

**JACKS CREEK (L) VOR/DME** 109.4 JKS Chan 31 N35°35.94'  
W88°21.53' 122° 23.1 NM to fld. 630/02E.



**COLLEGE DALE MUNI** (3M3) 2 SE UTC-5(-4DT) N35°02.59' W85°01.31'

ATLANTA  
L-25A

860 B S4 FUEL 100LL, JET A TPA—1900(1040) NOTAM FILE BNA

RWY 03-21: H4700X75 (ASPH) MIRL

RWY 03: SAVASI(S2L). Thld dsplcd 400'. Trees.

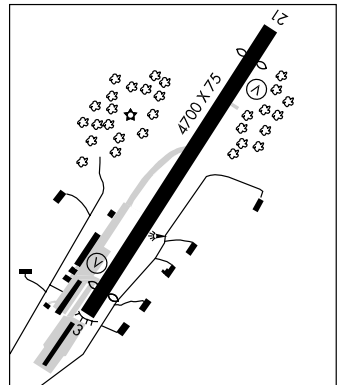
RWY 21: REIL. SAVASI(S2L)—GA 4.1° TCH 35'. Thld dsplcd 400'. Trees.

**AIRPORT REMARKS:** Attended 1330-2300Z†. For attendant after hrs call 423-593-4020. Mountain 1.75 NM N of arpt

**COMMUNICATIONS:** CTAF/UNICOM 122.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CHA.

**CHOO CHOO (H) VORTAC** 115.8 GQO Chan 105 N34°57.68'  
W85°09.20' 052° 8.1 NM to fld. 1030/01E. HIWAS.



**COLUMBIA/MOUNT PLEASANT****MAURY CO** (MRC) 2 NE UTC-6(-5DT) N35°33.26' W87°10.75'

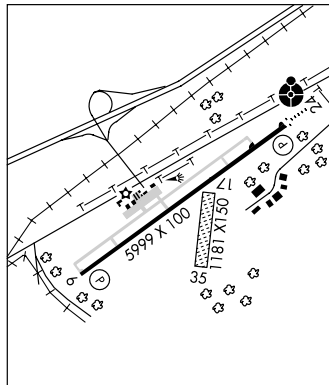
681 B S4 FUEL 100LL, JET A NOTAM FILE MKL

**RWY 06-24:** H5999X100 (ASPH) S-28, D-43, DT-70 MIRL 0.3% up NE**RWY 06:** REIL. PAPI(P4R). Trees.**RWY 24:** ODALS. REIL. PAPI(P4L). Trees.**RWY 17-35:** 1811X150 (TURF)**RWY 35:** Trees.**AIRPORT REMARKS:** Attended continuously. CLOSED Christmas. PAEW invof rwys 1300-2300Z†. Rwy 17-35 surface is rough and unmarked. ACTIVATE ODALS Rwy 24—CTAF. PAPI Rwy 06 and Rwy 24 opr continuously.**WEATHER DATA SOURCES:** AWOS-3 128.625 (931) 379-0844.**COMMUNICATIONS:** CTAF/UNICOM 122.8Ⓡ **MEMPHIS CENTER APP/DEP CON** 125.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.**GRAHAM (L) VORTAC** 111.6 GHM Chan 53 N35°50.04'

W87°27.11' 138° 21.4 NM to fld. 770/03E.

**NDB (MHW)** 365 PBC N35°36.49' W87°05.48' 234° 5.4

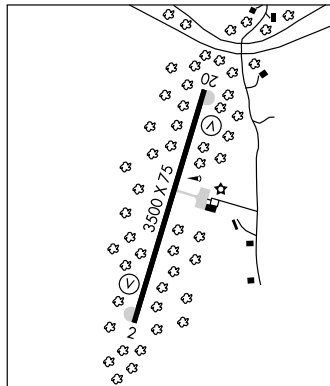
NM to fld. Unmonitored.

**SDF** 108.7 MRC Rwy 24.ATLANTA  
H-6K, 9A, L-16I  
IAP**COPPERHILL****MARTIN CAMPBELL FLD** (1A3) 3 NE UTC-5(-4DT) N35°00.95' W84°20.81'

1790 B NOTAM FILE BNA

**RWY 02-20:** H3500X75 (ASPH) S-30, D-45 LIRL**RWY 02:** REIL. SAVASI(S2L)—GA 3.0°TCH 24'. Trees.**RWY 20:** REIL. SAVASI(S2L)—GA 3.5°TCH 28'. Tree.**AIRPORT REMARKS:** Unattended. Birds on and invof arpt. Mountain ridge running parallel to rwy 5000' E. Rwy 02 and 20 REIL OTS indef. Rwy 02 VASI OTS indef. Rwy 20 VASI OTS indef. Rwy 02-20 LIRL OTS indef.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE MCN.**HARRIS (L) VORTACW** 109.8 HRS Chan 35 N34°56.58'

W83°54.94' 282° 21.7 NM to fld. 3660/00E. HIWAS.

ATLANTA  
L-25B**CORNELIA FORT AIRPARK** (See NASHVILLE)

**COVINGTON MUNI** (MØ4) 3 NE UTC-6(-5DT) N35°35.00' W89°35.23'

**MEMPHIS**  
H-6J, L-16H  
IAP

280 B FUEL 100LL, JET A NOTAM FILE MKL

RWY 01-19: H5004X100 (ASPH) S-15 MIRL

RWY 01: REIL. PAPI(P4L)—GA 3.0° TCH 21'. Tree.

RWY 19: REIL. PAPI(P4L). Tree.

**AIRPORT REMARKS:** Attended dawn-dusk. Arpt unattended Christmas and New Year's Day. Numerous agricultural acft ops conducted on and in/ovf arpt May 1-Oct 31. Rwy 19 PAPI OTS indef. MIRL Rwy 01-19 preset low ints, to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.575 (901)476-1705.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ MEMPHIS APP CON 125.8 120.07

Ⓡ MEMPHIS DEP CON 124.15

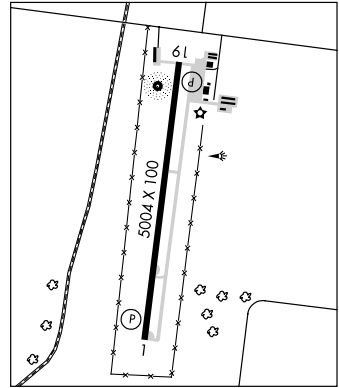
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DYR.

DYERSBURG (L) VORTAC 116.8 DYR Chan 115 N36°01.11'

W89°19.06' 204° 29.2 NM to fld. 380/03E. HIWAS.

NDB (MHW) 326 COO N35°35.38' W89°35.24' at fld.

NOTAM FILE MKL. (Unmonitored).



**CROSSVILLE MEMORIAL-WHITSON FLD** (CSV) 3 W UTC-6(-5DT) N35°57.08' W85°05.10'

**ATLANTA**  
H-9A, L-25A  
IAP

1881 B S4 FUEL 100LL, JET A+ NOTAM FILE CSV

RWY 08-26: H5418X100 (ASPH) S-33, D-62 HIRL 0.3% up W

RWY 08: VASI(V4R)—GA 3.0° TCH 50'. Trees.

RWY 26: REIL. PAPI(P4L)—GA 3.0° TCH 52'. Trees.

**AIRPORT REMARKS:** Attended 1400Z†-dark. CLOSED Thanksgiving and Christmas day. Parachute Jumping. ACTIVATE HIRL Rwy 08-26—preset low ints; to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** ASOS 120.625 (931) 456-4406.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

RCO 122.5 122.2 (NASHVILLE RADIO)

Ⓡ ATLANTA CENTER APP/DEP CON 133.6

**AIRSPACE:** CLASS E svc continuous.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSV.

HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86' W84°58.71' 335° 11.5 NM to fld.

3040/02W. HIWAS.

ILS 109.1 I-CSV Rwy 26. Class IA. BC unusable. LOC unusable inside .5 NM. LOC unusable byd 15° left of final.

**DAISY** N35°09.99' W85°09.44' NOTAM FILE CHA.

**ATLANTA**  
L-25A

NDB (HW) 341 CQN 198° 8.2 NM to Lovell Fld. (Unmonitored when twr clsd).

**DALLAS BAY SKY PARK** (See CHATTANOOGA)

**DAYTON****MARK ANTON** (2A0) 4 E UTC-5(-4DT) N35°29.18' W84°55.87'

719 B FUEL 100LL, JET A NOTAM FILE BNA

RWY 03-21: H5000X75 (ASPH) S-28, D-37 MIRL

RWY 03: REIL. SAVASI(S2L)—GA 3.0°TCH 24'. Trees.

RWY 21: REIL. SAVASI(S2L)—GA 3.0°TCH 21'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1330-2230Z†, Sun

1730-2230Z†. Deer on and in/ovf arpt. Rwy 03 SAVASI OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 135.075 (423) 775-4695.**COMMUNICATIONS:** CTAF/UNICOM 123.0

CHATTANOOGA APP/DEP CON 125.1 (1100-0450Z†)

ATLANTA CENTER APP/DEP CON 133.6 (0450-1100Z†)

GCO 121.725 (FLIGHT SERVICES)

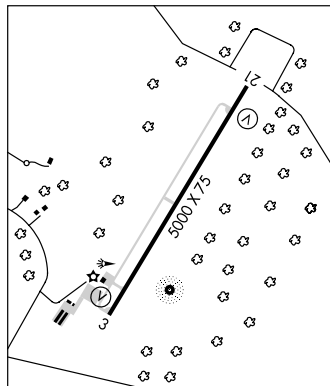
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSV.

HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86'

W84°58.71' 175° 17.8 NM to fld. 3040/02W. HIWAS.

NDB (MHW) 394 DTE N35°28.92' W84°55.86' at fld.

NOTAM FILE BNA.

ATLANTA  
H-9A, 12F, L-25A  
IAP**DICKSON MUNI** (M02) 3 N UTC-6(-5DT) N36°07.68' W87°25.79'

892 B S4 FUEL 100LL, JET A NOTAM FILE MKL

RWY 17-35: H5001X75 (ASPH) S-16, D-26 MIRL 0.5% up N

RWY 17: REIL. PAPI (P2L). Trees.

RWY 35: REIL. PAPI (P2L). Trees.

**AIRPORT REMARKS:** Attended Oct-Mar 1400-0000Z†, Apr-Sep

1400-0100Z†. Rwy 35 REIL OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 123.875 (615) 446-5481.**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ MEMPHIS CENTER APP/DEP CON: 125.85

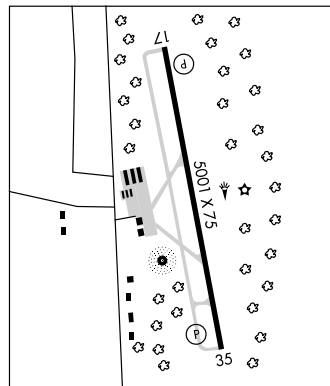
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

GRAHAM (L) VORTAC 111.6 GHM Chan 53 N35°50.04'

W87°27.11' 360° 17.6 NM to fld. 770/03E.

NDB (MHW) 203 DMZ N36°07.64' W87°25.94' at fld. NDB

unmonitored 2130-1230Z†.

ST LOUIS  
H-6K, 9A, L-16I  
IAP**DOBBS** N36°01.86' W86°43.31' NOTAM FILE BNA.

NDB (LOM) 304 BN 024° 6 NM to Nashville Intl.

ST LOUIS  
L-16J**DULANEY** N36°08.15' W82°53.42' NOTAM FILE BNA.

NDB (MHW) 263† DYQ 050° 5 NM to Greeneville-Greene Co Muni. Unmonitored 2300-1300Z†.

CINCINNATI  
L-25C

**DYERSBURG RGNL** (DYR) 2 S UTC-6(-5DT) N35°59.88' W89°24.40'

MEMPHIS

338 B S4 FUEL 100LL, JET A NOTAM FILE DYR

H-6J, L-16H

RWY 04-22: H5698X100 (ASPH) S-55, D-80, ST-102, DT-140 MIRL 0.7% up NE IAP

RWY 04: REIL. PAPI(P4L). Trees.

RWY 22: REIL. PAPI(P4L). Thld dspcd 694'. Trees.

RWY 16-34: H4000X75 (ASPH) S-50, D-75, ST-95, DT-135  
0.3% up NW

RWY 34: Trees.

**AIRPORT REMARKS:** Attended 1400-2300Z†. For svc after hrs phone  
731-445-1126 or 731-286-0447. Rwy 04 REIL OTS indef. Rwy  
22 REIL OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 135.625 (731) 287-0300. HIWAS  
116.8 DYR.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

RCO 122.45 122.2 (JACKSON RADIO)

Ⓡ MEMPHIS CENTER APP/DEP CON 134.65

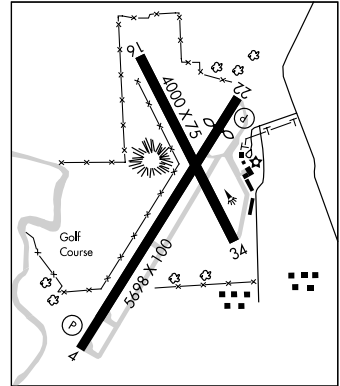
**AIRSPACE:** CLASS E svc continuously.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DYR.

(L) VORTACW 116.8 DYR Chan 115 N36°01.11'  
W89°19.06' 251° 4.5 NM to fld. 380/03E. HIWAS.

NALLY DUNSTON NDB (MHW) 343 DNT N35°59.70'  
W89°24.35' at fld. NOTAM FILE MKL. NDB unmonitored

Mon-Fri 0100-1300Z†, Sat-Sun 2300-1400Z†. SHUTDOWN.



## EAGLEVILLE

**PUCKETT GLIDERPORT** (50M) 4 SE UTC-6(-5DT) N35°41.37' W86°36.90'

ATLANTA

780 NOTAM FILE BNA

RWY 14-32: 2200X145 (TURF)

RWY 14: Thld dspcd 600'. Trees. Rgt tfc. RWY 32: Trees.

**AIRPORT REMARKS:** Attended 1600Z†-SS. Gliderport-powered acft welcome. Military activity and maneuvers  
prohibited. Rwy 14-32 and dspcd thld marked with 3' white cones.

**COMMUNICATIONS:** CTAF 122.9

**COMM/NAV/WEATHER REMARKS:** Frequency 123.5 used for Glider Training

**ELIZABETHTON MUNI** (ØA9) 3 NE UTC-5(-4DT) N36°22.27' W82°10.41'

CINCINNATI

1593 S4 FUEL 100LL, JET A OX 3 TPA-2593(1000) NOTAM FILE BNA

L-25C

RWY 06-24: H4529X70 (ASPH) S-25 LIRL (NSTD) 0.8% up NE IAP

RWY 06: SAVASI(S2L)-GA 3.75° TCH 36'. Thld dspcd 97'. Trees.  
Rgt tfc.

RWY 24: Thld dspcd 429'. Trees.

**AIRPORT REMARKS:** Attended Apr-Oct 1230-0230Z†, Nov-Mar  
1230-0030Z†. Balloon activities on fld. Rwy 24 preferred unless  
wind requires otherwise. High performance acft departing Rwy 24  
are to maintain rwy heading until reaching 4-lane highway/bridge.  
Repetitive tfc pattern ops by high performance acft is  
discouraged. 250' AGL crane ops intermittently 0.4 NM SW AER  
06 and 250' E of centerline. Rwy 06-24 NSTD LIRL avbl by prior  
arrangement only; call 423-543-2801 or after hrs  
423-795-5303.

**WEATHER DATA SOURCES:** AWOS-3 135.675 (423) 543-1801.

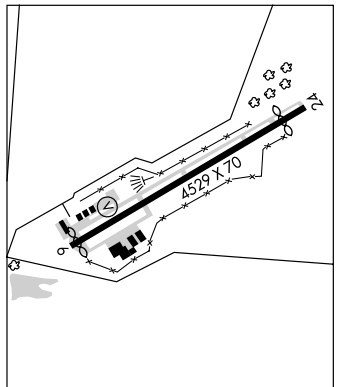
**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ TRI CITY APP/DEP CON 134.425 128.67

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

HOLSTON MOUNTAIN (L) VORTAC 114.6 HMV Chan 93 N36°26.22'  
W82°07.78' 212° 4.5 NM to fld. 4321/04W.

NDB (MHW) 275 EZT N36°18.96' W82°16.23' 057° 5.8 NM  
to fld. VFR only.



**ELLINGTON** (See LEWISBURG)

**ELVIS** N35°03.69' W90°04.30' NOTAM FILE MEM.

MEMPHIS

NDB (MHW/LOM) 287 ME 102° 4.8 NM to Memphis Intl. NDB unusable byd 15 NM.

L-186

**EVERETT-STEWART RGNL** (See UNION CITY)



**FAYETTE CO** (See SOMERVILLE)**FAYETTEVILLE MUNI** (FYM) 6 S UTC-6(-5DT) N35°03.58' W86°33.84'

984 B S4 FUEL 100LL, JET A OX 3, 4 NOTAM FILE MKL

RWY 02-20: H5900X100 (ASPH) S-21, D-31 MIRL 0.4% up N

RWY 02: REIL. PAPI(P4L)—GA 3.75° TCH 31'. Thld dsplcd 400'.

Trees.

RWY 20: ODALS. REIL. PAPI(P4R). Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z±, Sun 1600-2200Z±, CLOSED Federal holidays. ACTIVATE MIRL Rwy 02-20 and ODALS Rwy 20—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 135.275 (931) 433-5916.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® HUNTSVILLE APP/DEP CON 125.6 (1200-0600Z±)

MEMPHIS CENTER APP/DEP CON 120.8 (0600-1200Z±)

GCO 121.725 key 4 times (HUNTSVILLE CLNC), key 6 times (JACKSON FSS CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

ROCKET (L) VORTACW 112.2 RQZ Chan 59 N34°47.83'

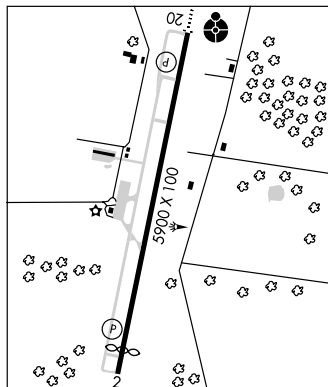
W86°38.03' 010° 16.1 NM to fld. 1199/02E.

KELSO NDB (MHW) 358 TNY N35°08.05' W86°32.52' 195°

4.6 NM to fld. NOTAM FILE MKL. NDB unmonitored

2300-1400Z±.

SDF 110.5 FYM Rwy 20. SDF unmonitored 2300-1400Z±.



ATLANTA  
H-6K, 9A, L-16J  
IAP

**FORT CAMPBELL** (See SABRE AHP)**FRANKLIN CO** (See SEWANEE)**GAINESBORO****JACKSON CO** (1A7) 3 NE UTC-6(-5DT) N36°23.84' W85°38.50'

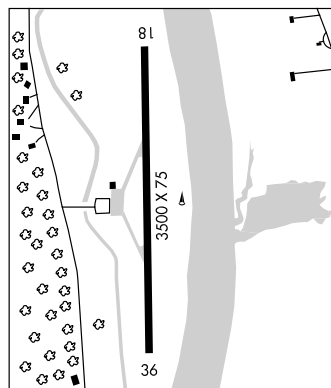
515 NOTAM FILE BNA

RWY 18-36: H3500X75 (ASPH) S-21, D-31

**AIRPORT REMARKS:** Unattended. High terrain all quadrants.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

LIVINGSTON (L) VORTAC 108.4 LVT Chan 21 N36°35.07'

W85°10.00' 246° 25.6 NM to fld. 1020/02W.



ST LOUIS  
L-25A

**GALLATIN**

**SUMNER CO RGNL** (M33) 2 E UTC-6(-5DT) N36°22.61' W86°24.53'

583 B S4 FUEL 100LL, JET A OX 1 NOTAM FILE BNA

RWY 17-35: H5000X100 (ASPH) S-16, D-26 MIRL 0.8% up N

RWY 17: REIL. PAPI(P4L). Trees.

RWY 35: REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended Oct-Mar 1230-0100Z†, Apr-Sep 1230-0200Z†. ACTIVATE MIRL Rwy 17-35—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 132.725 (615) 230-8005.

**COMMUNICATIONS:** CTAF/UNICOM 123.05

Ⓡ NASHVILLE APP/DEP CON 118.4

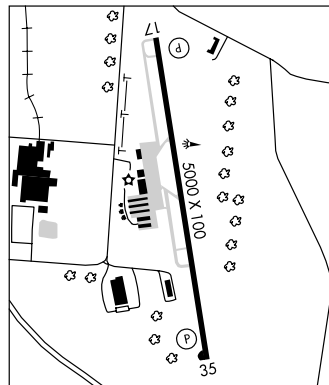
GCO 135.075 (NASHVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

NASHVILLE (H) VORTAC 114.1 BNA Chan 88 N36°08.22'

W86°41.09' 045° 19.7 NM to fld. 570/02W.

ST LOUIS  
H-6K, 9A, L-16J  
IAP



**GATLINBURG-PIGEON FORGE** (See SEVIERVILLE)

**GENERAL DEWITT SPAIN** (See MEMPHIS)

**GIBSON CO** (See TRENTON)

**GRAHAM** N35°50.04' W87°27.11' NOTAM FILE MKL.

(L) VORTAC 111.6 GHM Chan 53 at Centerville Muni. 770/03E.

RCO 122.1R 111.6T (JACKSON RADIO)

RCO 122.25 (JACKSON RADIO)

ATLANTA  
L-16I

**GREENEVILLE-GREENE CO MUNI** (GCV) 2 N UTC-5(-4DT) N36°11.58' W82°48.91'

1608 B S2 FUEL 100LL, JET A OX 2, 4 NOTAM FILE BNA

RWY 05-23: H6302X100 (ASPH) S-22, D-35 MIRL 0.6% up NE

RWY 05: REIL. VASI(V2L)—GA 3.5° TCH 28'. Trees.

RWY 23: REIL. VASI(V2L)—GA 4.0° TCH 31'. Rgt tfc.

**AIRPORT REMARKS:** Attended 1230-0000Z†. For svc other hrs call 423-636-8717. Parachute jumping weekends SR-SS. PAEW adjacent rwy and twy. Rwy 23 designated calm wind rwy.

**WEATHER DATA SOURCES:** AWOS-3 128.425 (423) 639-5081.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ TRI CITY APP/DEP CON 119.25 (1100-0500Z†)

Ⓡ ATLANTA CENTER APP/DEP CON 127.85 (0500-1100Z†)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE RDU.

SNOWBIRD (L) VORTAC 108.8 SOT Chan 25 N35°47.41'

W83°03.14' 030° 26.8 NM to fld. 4239/04W.

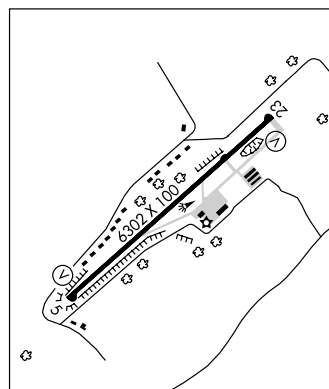
DULANEY NDB (MHW) 263 DYQ N36°08.15' W82°53.42'

051° 5 NM to fld. NOTAM FILE BNA. Unmonitored

2300-1300Z†.

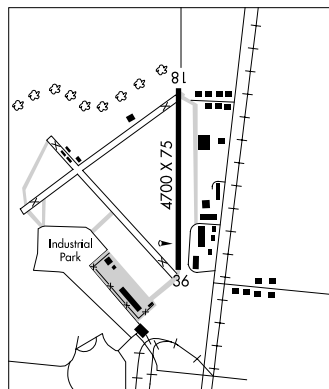
ILS 108.5 I-GCV Rwy 05. (Loc only) Unmonitored  
0100-1300Z†.

CINCINNATI  
H-98, 126, L-25C  
IAP



**HALLS****ARNOLD FLD** (M31) 2 NW UTC-6(-5DT) N35°54.20' W89°23.84'

292 S8 FUEL 100LL NOTAM FILE MKL

**RWY 18-36:** H4700X75 (CONC)**RWY 18:** Tree. Rgt tfc. **RWY 36:** Antenna.**AIRPORT REMARKS:** Attended irregularly. Waterfowl refuge ¼ NM east of arpt. Fence north end of rwy beyond overrun and CLOSED rws to isolate vehicle traffic from Rwy 18-36. There may be vehicle tfc on abandoned rwy system.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE DYR.**DYERSBURG (L) VORTACW** 116.8 DYR Chan 115 N36°01.11' W89°19.06' 206° 7.9 NM to fld. 380/03E. **HIWAS.****MEMPHIS**  
L-16H**HARDEMAN** N35°12.86' W89°02.53' NOTAM FILE MKL.**NDB (MHW)** 404 BAV at William L. Whitehurst Fld. NDB unmonitored 2300-1500Z†.

NDB unusable byd 20 NM.

**ATLANTA**  
L-16H**HARDWICK FLD** (See CLEVELAND)**HASSEL FLD** (See CLIFTON)**HAWKINS CO** (See ROGERSVILLE)**HENRY CO** (See PARIS)**HINCH MOUNTAIN** N35°46.86' W84°58.71' NOTAM FILE CSV.**(L) VORTAC** 117.6 HCH Chan 123 335° 11.5 NM to Crossville Memorial-Whitson Fld. 3040/02W. **HIWAS.****RCO** 122.1R 117.6T (NASHVILLE RADIO)**ATLANTA**  
H-9A, L-25A**HOHENWALD** N35°27.75' W87°37.82' NOTAM FILE MKL.**NDB (MHW)** 257 JHG at John A Baker Fld. Unmonitored. (NDB unusable byd 16 NM)**ATLANTA**  
L-16I**HOHENWALD****JOHN A BAKER FLD** (ØM3) 2 W UTC-6(-5DT) N35°32.76' W87°35.84'

972 B FUEL 100LL NOTAM FILE MKL

**RWY 02-20:** H4000X75 (ASPH) S-8, D-12 MIRL 0.5% up N**RWY 02:** PAPI(P2L)—GA 3.00° TCH 40'. Trees.**RWY 20:** PAPI(P2L)—GA 3.00° TCH 40'. Thld dspcd 500'. Trees.**AIRPORT REMARKS:** Unattended. Self service fuel avbl 24 hrs. ACTIVATE

MIRL Rwy 02-20—CTAF. PAPI Rwy 02 and Rwy 20 on continuous.

**COMMUNICATIONS:** CTAF/UNICOM 122.8**MEMPHIS CENTER APP/DEP CON** 125.85**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.**GRAHAM (L) VORTAC** 111.6 GHM Chan 53 N35°50.04'

W87°27.11' 199° 18.7 NM to fld. 770/03E.

**HOHENWALD NDB (MHW)** 257 JHG N35°27.75' W87°37.82'

019° 5.3 NM to fld. Unmonitored. (NDB unusable byd 16 NM)

**ATLANTA**  
L-16I  
IAP

**HOLSTON MOUNTAIN** N36°26.22' W82°07.78' NOTAM FILE BNA.  
(L) VORTAC 114.6 HNV Chan 93 284° 13.6 NM to Tri-Cities Rgnl TN/VA. 4321/04W.  
RCO 122.1R 114.6T (NASHVILLE RADIO)

CINCINNATI  
H-9B, L-25C

**HOUSTON CO** (See McKINNON)

**HUCHN** N35°59.28' W85°35.17' NOTAM FILE BNA.  
NDB (MHW) 233 HEM 036° 4.9 NM to Upper Cumberland Rgnl. NDB unmonitored 0100-1300Z†.

ATLANTA  
L-25A

**HUMBOLDT MUNI** (M53) 3 SE UTC-6(-5DT) N35°48.13' W88°52.50'  
421 B S4 FUEL 100LL NOTAM FILE MKL  
RWY 04-22: H4003X75 (ASPH) S-16, D-26 MIRL 0.4% up NE

MEMPHIS  
L-16H  
IAP

RWY 04: REIL. PAPI(P2L). Trees.

RWY 22: REIL. PAPI(P2L). Trees.

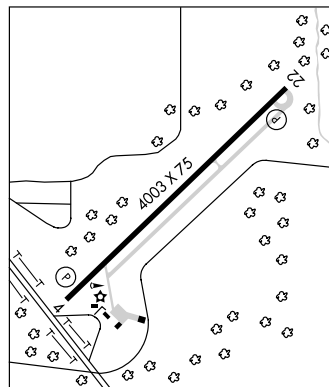
**AIRPORT REMARKS:** Attended dalgt hrs. Agricultural acft ops on and invof arpt. Rwy 04-22 15-30' trees west of rwy violate transition slope. Twy lgts very low ints. Rwy 04-22 lgts OTS-preset at step 1.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® **MEMPHIS CENTER APP/DEP CON** 134.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE DYR.

**DYERSBURG (L) VORTACW** 116.8 DYR Chan 115 N36°01.11' W89°19.06' 118° 25.2 NM to fld. 380/03E. HIWAS.



**HUMPHREYS CO** (See WAVERLY)

**HUNTINGDON** N36°05.31' W88°28.01' NOTAM FILE MKL.  
NDB (MHW) 217 HZD at Carrol Co.

ST LOUIS  
L-16I

## HUNTINGDON CARROLL CO

(HZD) 4 NW UTC-6(-5) N36°05.36' W88°27.80'  
497 B S4 FUEL 100LL, JET A NOTAM FILE MKL Not insp.

ST LOUIS  
H-6J, L-16I  
IAP

RWY 01-19: H5507X100 (ASPH) S-25, D-37 MIRL

RWY 01: REIL. PAPI(P4L)—GA 3.0° TCH 35'. Road.

RWY 19: REIL. PAPI(P4L)—GA 3.0° TCH 35'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun 1900-2300Z†. For svc after hrs call 731-352-7278. MIRL Rwy 01-19 preset med ints, to increase ints and ACTIVATE REIL Rwy 01 and Rwy 19—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 133.275 (731) 352-2854.

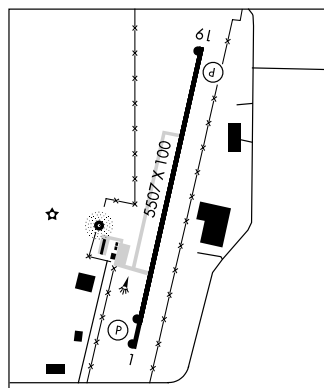
**COMMUNICATIONS:** CTAF/UNICOM 122.8

**MEMPHIS CENTER APP/DEP CON** 134.65.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

**JACKS CREEK (L) VOR/DME** 109.4 JKS Chan 31 N35°35.94' W88°21.53' 348° 29.8 NM to fld. 630/02E.

**HUNTINGDON NDB (MHW)** 217 HZD N36°05.31' W88°28.01' at fld.



**HURRICANE** N35°59.04' W85°48.49' NOTAM FILE BNA.  
NDB (MHW) 256 SKN at Smithville Muni.

ATLANTA  
L-25A

**JACKSBORO** N36°20.27' W84°09.66' NOTAM FILE BNA.  
NDB (MHW) 204 JAU at Campbell Co. Unmonitored exc Mon-Sat. 1900-0300Z†. SHUTDOWN.

CINCINNATI  
L-25B

**JACKSBORO****CAMPBELL CO** (JAU) 1 E UTC-5(-4DT) N36°20.05' W84°09.78'

CINCINNATI

L-25B

IAP

1180 B FUEL 100LL NOTAM FILE BNA

RWY 05-23: H4000X75 (ASPH) S-25 MIRL 1.2% up NE

RWY 05: REIL. PAPI(P2L)—GA 3.0° TCH 26'. Trees.

RWY 23: REIL. PAPI(P2L)—GA 3.0° TCH 30'.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2200Z†. Parachute Jumping.**WEATHER DATA SOURCES:** AWOS-3 124.975 (423) 566-6474.**COMMUNICATIONS:** CTAF/UNICOM 122.8

ATLANTA CENTER APP/DEP CON 133.6

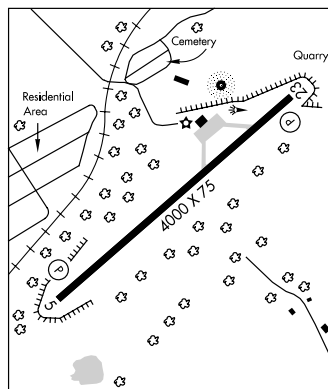
**RADIO AIDS TO NAVIGATION:** NOTAM FILE TYS.

VOLUNTEER (H) VORTAC 116.4 VXV Chan 111 N35°54.29'

W83°53.68' 336° 28.8 NM to fld. 1290/03W. HIWAS.

JACKSBORO NDB (MHW) 204 JAU N36°20.27' W84°09.66'

at fld. NOTAM FILE BNA. SHUTDOWN.

**JACKS CREEK** N35°35.94' W88°21.53' NOTAM FILE MKL.

MEMPHIS

(L) VOR/DME 109.4 JKS Chan 31 065° 8.7 NM to Beech River Rgnl. 630/02E.

L-161

RCO 122.1R 109.4T (JACKSON RADIO)

**JACKSON** N35°36.08' W88°54.91'

MEMPHIS

RCO 122.2 122.65 127.15 (JACKSON RADIO)

H-6J, L-16H

**JACKSON****Mc KELLAR-SIPES RGNL** (MKL) 4 W UTC-6(-5DT) N35°35.99' W88°54.94'

MEMPHIS

H-6J, L-16H

434 B S4 FUEL 100LL, JET A Class I, ARFF Index A NOTAM FILE MKL

IAP, AD

RWY 02-20: H6006X150 (ASPH-GRVD) S-55, D-80, ST-102, DT-125 HIRL 0.4% up S

RWY 02: MALSR. PAPI(P4L).

RWY 20: REIL. PAPI(P4L). Tree.

RWY 11-29: H3538X100 (ASPH) S-27 MIRL

RWY 11: PAPI(P4L). Tree. RWY 29: PAPI(P4L). Tree.

**AIRPORT REMARKS:** Attended Mon-Fri 1200-0330Z†, Sat-Sun

1300-0230Z†. For attendant other hrs call

731-422-4486/394-6006. CLOSED to Department of

Transportation certificated air carrier operations 0400-1330Z†

except with prior approval from arpt management. CLOSED to

unscheduled air carrier ops with more than 30 passenger seats

except 24 hr PPR call arpt manager 731-423-0995. Air carrier

operations involving aircraft with more than 9 passenger seats are

not authorized in excess of 15 minutes before or after scheduled

arrival or departure time without prior coordination with airport

manager and confirmation that aircraft rescue and fire fighting

services are available prior to arrival or departure. PPR for ground

access to fld 0330-1200Z†, call 731-423-0995. Rwy 02-20

grooved 55' each side of centerline. Rwy 02 PAPI not coincidental

with I-MLK Glideslope path. When twr closed ACTIVATE HIRL Rwy

02-20, MIRL Rwy 11-29 and MALSR Rwy 02-CTAF.

**WEATHER DATA SOURCES:** ASOS 119.325 (731) 424-0692.**COMMUNICATIONS:** CTAF 127.15 UNICOM 122.95

JACKSON RCO 122.2 122.65 127.15 (JACKSON RADIO)

Ⓡ MEMPHIS CENTER APP/DEP CON 134.65

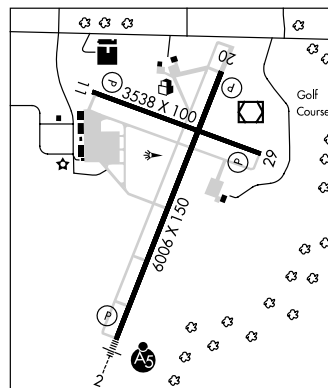
JACKSON TOWER 127.15 (1300-0100Z†) GND CON 120.9

**AIRSPACE:** CLASS D svc 1300-0100Z† other times CLASS E.**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

(T) VORW/DME 112.0 MKL Chan 57 N35°36.21' W88°54.63' at fld. 410/01W.

MERSY NDB (LOM) 394 MK N35°30.95' W88°57.42' 023° 5.4 NM to fld.

ILS 109.1 I-MKL Rwy 02. Class IE. LOM MERSY NDB.



**JACKSON CO** (See GAINESBORO)

**JAMESTOWN MUNI** (2A1) 5 S UTC-6(-5DT) N36°20.98' W84°56.80'

CINCINNATI  
L-25A  
IAP

1694 B FUEL 100LL NOTAM FILE BNA

RWY 18-36: H3498X75 (ASPH) S-17, D-22 HIRL 0.5% up N

RWY 18: REIL. PAPI(P4L). Tree.

RWY 36: REIL. PAPI(P4L)—GA 4.0° TCH 22'. Tree.

AIRPORT REMARKS: Attended Mon-Sat 1400-2200Z†, Sun

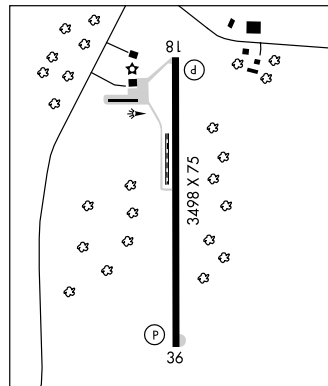
1800-2200Z†. Parachute activity invof arpt. ACTIVATE HIRL Rwy 18-36 and REIL Rwy 18 and Rwy 36—CTAF. PAPI Rwy 18 and Rwy 36 on continuously.

COMMUNICATIONS: CTAF/UNICOM 122.8

® INDIANAPOLIS CENTER APP/DEP CON 124.625

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

LIVINGSTON (L) VORTAC 108.4 LVT Chan 21 N36°35.07'  
W85°10.00' 145° 17.6 NM to fld. 1020/02W.



**JASPER** N35°03.58' W85°35.04' NOTAM FILE BNA.

ATLANTA  
L-25A

NDB (MHW) 382 APT at Marion Co-Brown Fld.

**JASPER**

**MARION CO-BROWN FLD** (APT) 4 SE UTC-6(-5DT) N35°03.64' W85°35.12'

ATLANTA  
L-25A  
IAP

641 B FUEL 100LL, JET A NOTAM FILE BNA

RWY 04-22: H3500X75(ASPH) S-30 MIRL

RWY 04: REIL. SAVASI(S2L)—GA 3.5° TCH 26'. Tree.

RWY 22: REIL. SAVASI(S2L)—GA 3.5° TCH 22'. Trees. Rgt tfc.

AIRPORT REMARKS: Attended Mon-Sat 1400-2300Z†, Sun

1800-2300Z†. CLOSED on federal holidays. Svcs not avbl holidays. Deer on and invof arpt. Ultralight activity on and invof arpt. PAEW on and invof Rwy 04-22. SAVASI Rwy 04 OTS indef. SAVASI Rwy 22 OTS indef.

COMMUNICATIONS: CTAF/UNICOM 122.8

CHATTANOOGA APP/DEP CON 119.2 (1100-0450Z†)

ATLANTA CENTER APP/DEP CON 132.05 (0450-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE CHA.

CHOO CHOO (H) VORTAC 115.8 GQO Chan 105 N34°57.68'  
W85°09.20' 285° 22.1 NM to fld. 1030/01E. HIWAS.

JASPER NDB (MHW) 382 APT N35°03.58' W85°35.04' at fld.  
NOTAM FILE BNA.



**JEFFERSON** N36°06.63' W83°28.54' NOTAM FILE BNA.

CINCINNATI  
L-25B

NDB (MHW) 346 JXT 054° 6.4 NM to Moore-Murrell. NDB unusable byd 15 NM.

**JOHN A BAKER FLD** (See HOHENWALD)

**JOHN C. TUNE** (See NASHVILLE)

**JOHNSON CO** (See MOUNTAIN CITY)

**JOHNSON CITY** (ØA4) 3 NM UTC-5(-4DT) N36°21.82' W82°18.54'

CINCINNATI

1550 NOTAM FILE BNA

L-25C

**RWY 04-22:** H3000X50 (ASPH) S-15

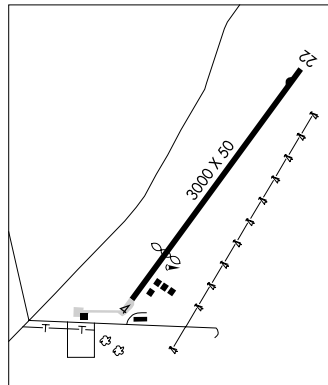
**RWY 04:** Thld dspcd 800'. Trees. **RWY 22:** Trees.

**AIRPORT REMARKS:** Attended 1400-2200Z†. Mountain ridges E of arpt. 4390' within 9 mi. Rwy 04-22 pavement badly cracked.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

**HOLSTON MOUNTAIN (L) VORTAC** 114.6 HMY Chan 93 N36°26.22' W82°07.78' 247° 9.7 NM to fld. 4321/04W.



**KELSO** N35°08.05' W86°32.52' NOTAM FILE MKL.

ATLANTA

**NDB (MHW)** 358 TNY 195° 4.7 NM to Fayetteville Muni. NDB unmonitored 2300-1400Z†.

L-16J

## KNOXVILLE

**KNOXVILLE DOWNTOWN ISLAND** (DKX) 3 SE UTC-5(-4DT) N35°57.83' W83°52.42'

ATLANTA

833 B S4 **FUEL** 100LL, JET A1 OX 1, 2, 3, 4 NOTAM FILE BNA

L-25B

**RWY 08-26:** H3499X74 (ASPH) S-22 MIRL

IAP

**RWY 08:** REIL. VASI(V2L)—GA 4.0°TCH 35'. Trees.

**RWY 26:** REIL. VASI(V2L)—GA 4.0°TCH 32'.

**AIRPORT REMARKS:** Attended 1200-1400Z†. 100LL avbl 24 hrs on self-svc. Geese on and invof arpt. Req acft departing Rwy 26 avoid turns over neighborhood located approximately 1 NM SW of arpt noise sensitive area. MIRL Rwy 08-26 and twy lgts and REILS Rwy 08 and Rwy 26 are preset on low ints; to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 125.375 (865) 579-6151.

**COMMUNICATIONS:** CTAF 126.6 UNICOM 122.95

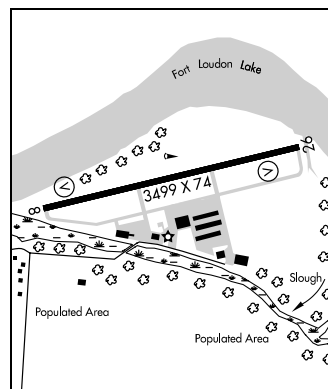
® **KNOXVILLE APP/DEP CON** 123.9 **CLNC DEL** 121.7

**RADIO AIDS TO NAVIGATION:** NOTAM FILE TYS.

**VOLUNTEER (H) VORTAC** 116.4 VVX Chan 111 N35°54.29'

W83°53.68' 019° 3.7 NM to fld. 1290/03W. **HIWAS.**

**ILS** 111.3 I-DKX Rwy 26. (Loc only)



**Mc GHEE TYSON** (TYS) 10 S UTC-5(-4DT) N35°48.66' W83°59.64'

ATLANTA

981 B S4 FUEL 100LL, JET A, J8 OX 1 LRA Class I, ARFF Index C

H-9A, 126, L-25B

NOTAM FILE TYS

IAP, AD

**RWY 05L-23R:** H9005X150 (CONC-GRVD) S-90, D-200, ST-175, DT-350,DDT-540 HIRL CL

**RWY 05L:** MALSR. TDZL. VASI(V4L)—GA 2.7°TCH 75'. Tree. 0.9% up.

**RWY 23R:** ALSF2. TDZL. VASI(V4L)—GA 3.0°TCH 56'. Rgt tfc. 0.3% down.

**RWY 05R-23L:** H9000X150 (ASPH-GRVD) S-75, D-200, ST-175, DT-270 HIRL CL

**RWY 05R:** TDZL. REIL. PAPI(P4L)—GA 3.0°TCH 43'. Rgt tfc. 0.5% up.

**RWY 23L:** REIL. PAPI(P4L)—GA 3.0°TCH 55'. Thld dsplcd 400'. Tree.

**RUNWAY DECLARED DISTANCE INFORMATION**

**RWY 05R:** TORA-9000 TODA-9000 ASDA-8600 LDA-8600

**RWY 23L:** TORA-9000 TODA-9000 ASDA-9000 LDA-8600

**AIRPORT REMARKS:** Attended continuously. CAUTION: Birds on and invof arpt, increased Oct-Apr. Hold short line for Rwy 23L located slightly N of Twy A-8. Portion of Twy A near Rwy 5R apch end not visible from twr. Wide-bodied acft use care when turning onto Twy A from ramps 4, 5 and 6. PPR from Air National Guard for civil acft to use Twys G1, G2, G3, G4, and G South of Twy G5. Twy G1/Rwy 5L underrun usable with prior coordination only. Twy G5 and Twy G6 are unusable for mil acft. Contact 865-985-4371. Rwy 23L RVR touchdown. Pilots are requested to delay turns until after 2500' unless otherwise advised to avoid noise sensitive areas. Flight Notification Service (ADCUS) avbl.

**WEATHER DATA SOURCES:** ASOS (865) 981-4053. LLWAS.

**COMMUNICATIONS:** ATIS 128.35 UNICOM 122.95

RCD 122.3 122.2 (NASHVILLE RADIO)

® **KNOXVILLE APP/DEP CON** 118.0 (051°-229°) 123.9 (230°-050°) 120.65 132.8

**KNOXVILLE TOWER** 121.2 **GND CON** 121.9 **CLNC DEL** 121.65

**AIRSPACE:** CLASS C svc continuous ctc **APP CON**

**RADIO AIDS TO NAVIGATION:** NOTAM FILE TYS.

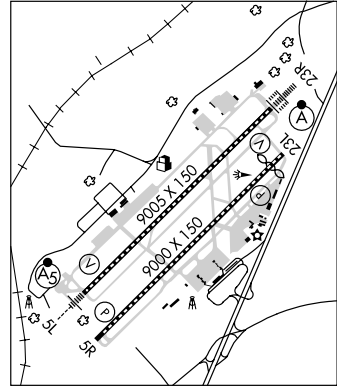
**VOLUNTEER (H) VORTAC** 116.4 VVX Chan 111 N35°54.29' W83°53.68' 224° 7.4 NM to fld. 1290/03W. HIWAS.

**BENFI NDB (LOM)** 353 TY N35°44.53' W84°04.87' 049° 5.9 NM to fld.

**ILS 110.3** I-TYS Rwy 05L. Class IA. LOM BENFI NDB. BC unusable.

**ILS 111.7** I-BUI Rwy 23R LOC unusable byd 15 NM blo 3,000' and byd 15° rgt of course.

**ASR**





**LAFAYETTE MUNI** (3M7) 2 W UTC-6(-5DT) N36°31.20' W86°03.48'

ST LOUIS

969 B S2 FUEL 100LL, JET A NOTAM FILE BNA

H-6K, 9A, L-16J

RWY 01-19: H5200X75 (ASPH) S-21, D-31 MIRL 0.5% up S

IAP

RWY 01: REIL. VASI(V2L)—GA 3.5°TCH 24'. Thld dspcd 200'.  
Trees.

RWY 19: REIL. VASI(V2L)—GA 3.0°TCH 21'. P-line.

**AIRPORT REMARKS:** Attended Mon-Sat 1430-2300Z†, Sun 1800-2300Z†. For attendant after hrs call 615-666-4408.

ACTIVATE VASI Rwy 01 and 19—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

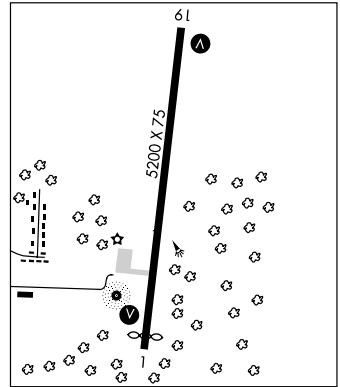
Ⓡ **NASHVILLE APP/DEP CON** 118.4

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BWG.

**BOWLING GREEN (H) VORTACW** 117.9 BWG Chan

126 N36°55.73' W86°26.61' 141° 30.7 NM to fld.  
565/02E.

**NDB (MHW)** 245 LFB N36°30.91' W86°03.66' at fld.  
NOTAM FILE BNA.



**LAWRENCEBURG-LAWRENCE CO** (2M2) 3 NE UTC-6(-5DT) N35°14.06' W87°15.48'

ATLANTA

936 B FUEL 100LL, JET A NOTAM FILE MKL

H-6K, 9A, L-16J

RWY 17-35: H5003X100 (ASPH) S-15 MIRL

IAP

RWY 17: REIL. PAPI(P4L). Trees.

RWY 35: REIL. PAPI(P4L). Pole.

**AIRPORT REMARKS:** Attended 1400-2300Z†. For after hrs svc contact 931-829-2652 or 931-242-8701.

**WEATHER DATA SOURCES:** AWOS-3 120.175 (931) 766-1585.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

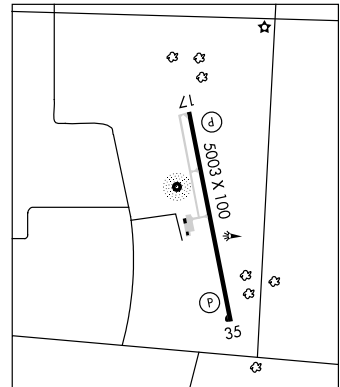
Ⓡ **MEMPHIS CENTER APP/DEP CON** 125.85

**GCO** 121.725 (FLIGHT SERVICES)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MSL.

**MUSCLE SHOALS (L) VORTACW** 116.5 MSL Chan 112 N34°42.41'  
W87°29.49' 019° 33.6 NM to fld. 580/01E.

**NDB (MHW)** 269 LRT N35°14.13' W87°15.64' at fld.  
NOTAM FILE MKL. NDB unmonitored 2300-1400Z†. NDB unusable byd 25 NM.



**LEBANON MUNI** (M54) 2 SW UTC-6(-5DT) N36°11.42' W86°18.94'

ST LOUIS

588 B S4 FUEL 100LL, JET A NOTAM FILE BNA

H-6K, 9A, L-16J

RWY 01-19: H5000X100 (ASPH) S-24, D-37 MIRL 0.8% up S

IAP

RWY 01: REIL. PAPI(P2L). Thld dsplcd 400'. Trees.

RWY 19: REIL. PAPI(P2L). Thld dsplcd 500'. Road.

RWY 04-22: 1801X150 (TURF)

RWY 22: Trees.

**RUNWAY DECLARED DISTANCE INFORMATION**

RWY 01: TORA-5000 TODA-5000 ASDA-4680 LDA-4527

RWY 19: TORA-5000 TODA-5000 ASDA-4847 LDA-4527

**AIRPORT REMARKS:** Attended 1300-0100Z†, CLOSED Thanksgiving,

Christmas and New Years day. For svc after hrs call

615-444-0031. Bird activity on and in/ovf arpt. Rwy 04-22

marked with 3' white cones. Rwy 04-22 dsplcd thlds marked with three white cones. Rwy 01 PAPI OTS indef.

**WEATHER DATA SOURCES:** AWOS-3 118.325 (615) 444-5778.

**COMMUNICATIONS:** CTAF/UNICOM 122.725

® **NASHVILLE APP/DEP CON 118.4**

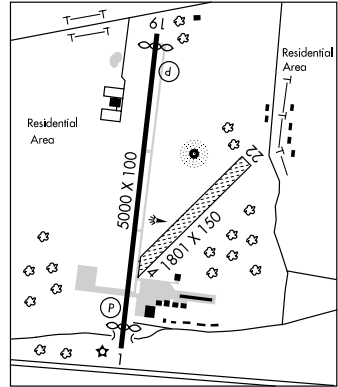
GCO 135.075 (NASHVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

NASHVILLE (H) VORTAC 114.1 BNA Chan 88 N36°08.22'

W86°41.09' 082° 18.2 NM to fld. 570/02W.

NDB (MHW) 414 JUE N36°11.53' W86°18.83' at fld. NDB unmonitored 0300-1200Z†.



**LEWISBURG**

**ELLINGTON** (LUG) 3 N UTC-6(-5DT) N35°30.42' W86°48.23'

ATLANTA

717 B S4 FUEL 100LL, JET A NOTAM FILE MKL

H-6K, 9A, L-16J

RWY 02-20: H5002X75 (ASPH) S-28, D-41 MIRL

IAP

RWY 02: REIL. SAVASI(S2L)—GA 4.0°TCH 28'. Trees.

RWY 20: REIL. SAVASI(S2L)—GA 3.5°TCH 21'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-0100Z†, Sun 1900-2300Z†.

**WEATHER DATA SOURCES:** AWOS-3 135.775 (931) 270-1014.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

MEMPHIS CENTER APP/DEP CON 126.75

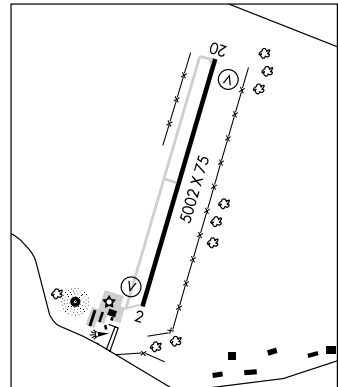
**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'

W86°26.35' 261° 18.2 NM to fld. 814/01W.

VERONA NDB (MHW) 251 LUG N35°30.03' W86°48.58' at fld.

NOTAM FILE MKL. Unmonitored 0100-1300Z†.



**LEXINGTON-PARSONS**

**BEECH RIVER RGNL** (PVE) 5 NW UTC-6(-5DT) N35°39.38' W88°11.72'

MEMPHIS

488 B FUEL 100LL, JET A NOTAM FILE MKL

H-6J, L-16J

RWY 01-19: H6000X100 (CONC) S-45, D-60 MIRL 0.7% up N

IAP

RWY 01: REIL. PAPI(P2L)—GA 3.0°TCH 40'.

RWY 19: REIL. PAPI(P2L)—GA 3.0°TCH 40'.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z†, Sun 1900-2100Z†.

**WEATHER DATA SOURCES:** AWOS-3 118.125 (713) 845-5738.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

® **MEMPHIS CENTER APP/DEP CON 125.85**

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

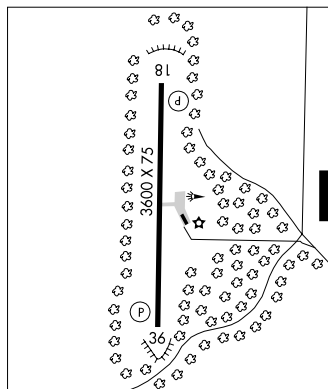
JACKS CREEK (L) VOR/DME 109.4 JKS Chan 31 N35°35.94' W88°21.53' 065° 8.7 NM to fld. 630/02E.

**LINDEN****PERRY CO** (M15) 3 SW UTC-6(-5DT) N35°35.75' W87°52.60'

740 B NOTAM FILE MKL

**RWY 18-36:** H3600X75 (ASPH) S-23 LIRL**RWY 18:** REIL. PAPI(P2L). Trees.**RWY 36:** REIL. PAPI(P2L). Trees.**AIRPORT REMARKS:** Unattended. CLOSED nights indefinitely. Rwy 18-36 GWT single wheel limited to 17000 lbs by arpt manager. Arpt bcn OTS indef. Rwy 18 and Rwy 36 REIL OTS indef.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.**JACKS CREEK (L) VOR/DME** 109.4 JKS Chan 31 N35°35.94'

W88°21.53' 088° 23.6 NM to fld. 630/02E.

ATLANTA  
L-161**LIVINGSTON** N36°35.07' W85°10.00' NOTAM FILE BNA.

(L) VORTAC 108.4 LVT Chan 21 216° 12.5 NM to Livingston Muni. 1020/2W.

RCO 122.1R 108.4T (NASHVILLE RADIO)

ST. LOUIS  
H-9A, L-25A**LIVINGSTON MUNI** (8A3) 2 NE UTC-6(-5DT) N36°24.81' W85°18.63'

1372 B S2 FUEL 100LL, JET A1 NOTAM FILE BNA

**RWY 03-21:** H5152X75 (ASPH) S-14, D-21 MIRL**RWY 03:** REIL. VASI(V2L). Trees.**RWY 21:** REIL. SAVASI(S2L)—GA 4.0°TCH 21'. Trees.**AIRPORT REMARKS:** Attended 1300Z†-dusk. After hours call for manager 931-823-1158 for svc. Parachute Jumping. Ultralight activity invof arpt.**WEATHER DATA SOURCES:** AWOS-3 126.175 (931) 823-3329.**COMMUNICATIONS:** CTAF/UNICOM 122.8

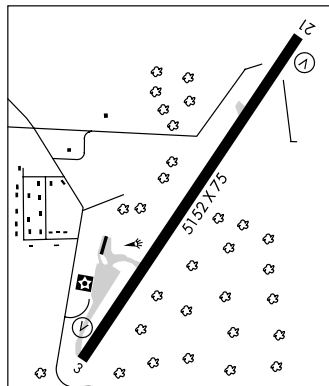
RCO 122.1R 108.4T (NASHVILLE RADIO)

® INDIANAPOLIS CENTER APP/DEP CON 124.625

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

(L) VORTAC 108.4 LVT Chan 21 N36°35.07' W85°10.00'

216° 12.5 NM to fld. 1020/02W.

ST LOUIS  
H-9A, L-25A  
IAP**LOVELL FLD** (See CHATTANOOGA)**MADISONVILLE** N35°32.70' W84°22.98' NOTAM FILE BNA.

NDB (MHW) 361 MNV at Monroe Co.

ATLANTA  
L-25B

**MADISONVILLE****MONROE CO** (MNV) 2 NW UTC-5(-4DT) N35°32.71' W84°22.82'

1031 B S4 FUEL 100LL, JET A1+ NOTAM FILE BNA

RWY 05-23: H3641X75 (ASPH) S-22, D-35 MIRL 0.8% up SW

RWY 05: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Tree.

RWY 23: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Thld dsplcd 140'. Tree.

AIRPORT REMARKS: Attended 1300-2200Z+. Arpt unattended Christmas day. Rwy 05 REIL OTS indef. Rwy 23 REIL OTS indef.

WEATHER DATA SOURCES: AWOS-3 118.475 (423) 442-6170.

COMMUNICATIONS: CTAF/UNICOM 123.0

® KNOXVILLE APP/DEP CON 123.9

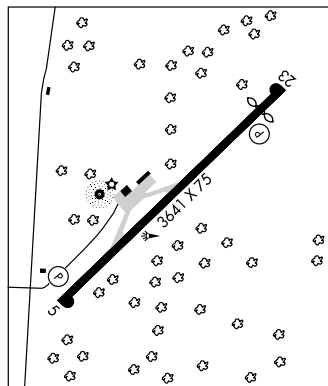
RADIO AIDS TO NAVIGATION: NOTAM FILE CSV.

HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86'

W84°58.71' 118° 32.5 NM to fld. 3040/02W. HIWAS.

MADISONVILLE NDB (MHW) 361 MNV N35°32.70' W84°22.98'

at fld. NOTAM FILE BNA.

**MARION CO—BROWN FLD** (See JASPER)**MARK ANTON** (See DAYTON)**MARTIN CAMPBELL FLD** (See COPPERHILL)**MAURY CO** (See COLUMBIA/MOUNT PLEASANT)**Mc GHEE TYSON** (See KNOXVILLE)**McKELLAR—SIPES RGNL** (See JACKSON)**McKINNON****HOUSTON CO** (M93) 0 W UTC-6(-5DT) N36°19.00' W87°55.00'

370 NOTAM FILE MKL

RWY 08-26: H3000X75 (ASPH) S-11, D-24

RWY 08: Tree. RWY 26: Thld dsplcd 210'. Trees.

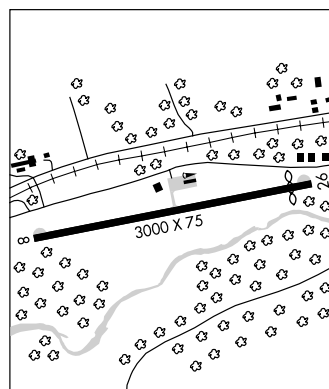
AIRPORT REMARKS: Unattended. Rwy 08-26 pavement cracking and grass growing in cracks.

COMMUNICATIONS: CTAF 122.9

RADIO AIDS TO NAVIGATION: NOTAM FILE CKV.

CLARKSVILLE (T) VOR/DME 110.6 CKV Chan 43 N36°37.32'

W87°24.76' 234° 30.5 NM to fld. 540/01W.

ST LOUIS  
L-161**McMINN CO** (See ATHENS)

**McMINNVILLE****WARREN CO MEML** (RNC) 3 W UTC-6(-5DT) N35°41.92' W85°50.63'

1032 B S4 FUEL 100LL, JET A NOTAM FILE BNA

RWY 05-23: H5000X100 (ASPH) S-29, D-48 MIRL

RWY 05: REIL. PAPI(P4L). Trees.

RWY 23: REIL. PAPI(P4L). Thld dsplcd 290'. Trees.

**AIRPORT REMARKS:** Attended 1400-0100Z†. CLOSED Christmas. For svc after hrs call 931-668-7050. MIRL Rwy 05-23 preset on low; to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 135.525 (931) 668-7056.**COMMUNICATIONS:** CTAF/UNICOM 122.8

MEMPHIS CENTER APP/DEP CON 126.75

GCD 121.725 (FLIGHT SERVICES)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'

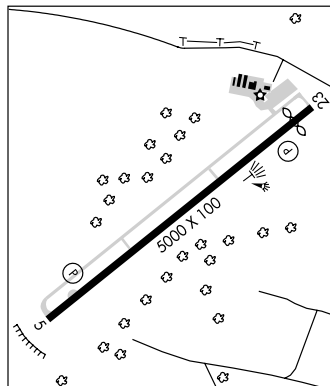
W86°26.35' 075° 30.3 NM to fld. 814/01W.

WARRI NDB (MHW) 209 RN N35°45.15' W85°45.85' 232° 5.1

NM to fld. NDB unmonitored.

ILS 111.5 I-RNC Rwy 23. LOM WARRI NDB. LOC only.

**ATLANTA**  
H-9A, L-25A  
IAP

**MEMPHIS****GENERAL DEWITT SPAIN** (M01) 6 NW UTC-6(-5DT) N35°12.04' W90°03.24'

225 B S4 FUEL 100LL, JET A+ OX1 NOTAM FILE MKL

RWY 17-35: H3800X75 (ASPH) S-25 MIRL

RWY 17: REIL. VASI(V2L)—GA 4.0° TCH 31'. Trees. Rgt tfc.

RWY 35: REIL. PAPI(P2L)—GA 4.0° TCH 40'. Tree.

**AIRPORT REMARKS:** Attended 1400-2230Z†. Arpt unattended Thanksgiving and Christmas. Numerous radio towers 1 mile NE of airport—849' MSL (608' AGL). Fixed-wing tkf/lbg prohibited from/to grass areas.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

Ⓡ MEMPHIS APP CON 119.1 Ⓡ MEMPHIS DEP CON 124.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MEM.

MEMPHIS (H) VORTAC 117.5 MEM Chan 122 N35°00.91' W89°58.99' 342° 11.7 NM to fld. 360/01E.

SPAIN NDB (MHW) 414 SPQ N35°12.07' W90°03.07' at fld. NOTAM FILE MKL. VFR only.

**MEMPHIS**  
L-16H  
IAP



**MERSY** N35°30.95' W88°57.42' NOTAM FILE MKL.  
NDB (LOM) 394 MK 020° 5.4 NM to McKellar-Sipes Rgnl.

MEMPHIS

**MILLINGTON**

**CHARLES W. BAKER** (2M8) 4 SW UTC-6(-5DT) N35°16.74' W89°55.89'

MEMPHIS

247 B S4 FUEL 100LL NOTAM FILE MKL

L-16H

RWY 18-36: H3500X75 (ASPH) S-25 MRL

IAP

RWY 18: REIL. PAPI(P2L)—GA 4.0° TCH 40'. Tree.

RWY 36: REIL. PAPI(P2L)—GA 4.0° TCH 40'. Tree. Rgt tfc.

RWY 18U-36U: H1600X75 (ASPH) S-4

RWY 18U: Tree. RWY 36U: Trees.

**AIRPORT REMARKS:** Attended 1400-2230Z†. Unattended Thanksgiving and Christmas. Fixed-wing tkr/ldg prohibited from/to grass areas. Rwy 18U-36U for ultralgt acft only. Rwy 18U-36U centerline stripes only.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ MEMPHIS APP CON 125.8 Ⓡ MEMPHIS DEP CON 124.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MEM.

**MEMPHIS (H) VORTAC** 117.5 MEM Chan 122 N35°00.91' W89°58.99' 008° 16.0 NM to fld. 360/01E.

**MILLINGTON NDB (MHW)** 232 MIG N35°16.83' W89°55.98' at fld. NOTAM FILE MKL. VFR only.

**MILLINGTON RGNL JETPORT** (NQA) 1 NE UTC-6(-5DT) N35°21.40' W89°52.22'

MEMPHIS

320 B S4 FUEL 100LL, JET A+ OX 4 ARFF Index—See Remarks

H-6J, L-16H

NOTAM FILE NQA.

IAP

RWY 04-22: H8000X200 (ASPH-CONC-GRVD) S-150, D-170,

ST-175, DT-309 HIRL

RWY 04: REIL. PAPI(P4L)—GA 3.0° TCH 73'. 0.5% up.

RWY 22: MALSR. REIL. PAPI(P4L)—GA 3.0° TCH 73'. Rgt tfc. 0.5% down.

**AIRPORT REMARKS:** Attended continuously Mon-Fri, Sat-Sun 1130-0100Z†. For svc after hrs call FBO 901-873-4144. Class IV, ARFF Index A. Index D avbl with prior notice. Rwy 04-22 first 1000 ft both ends and 3000 ft of NE portion not grvd. Twy B closed to air carrier ops. Rwy 22 REIL OTS indef. HIRL Rwy 04-22 and MALSR Rwy 22 preset low ints, to increase ints and ACTIVATE MALSR Rwy 22 and REIL Rwy 04 and Rwy 22—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.925 (901) 873-3630.

**COMMUNICATIONS:** CTAF 120.25 UNICOM 122.95

Ⓡ MEMPHIS APP CON 119.1 126.7 (176°-355°) 125.8 120.07 120.925 (356°-175°)

TOWER 120.25 (Mon 1500-0800Z†, Tue-Fri 1130-0800Z†,

Sat-Sun 1130-0100Z†) GND CON 121.375

Ⓡ MEMPHIS DEP CON 124.65 (176°-355°) 121.0 124.15 (356°-175°)

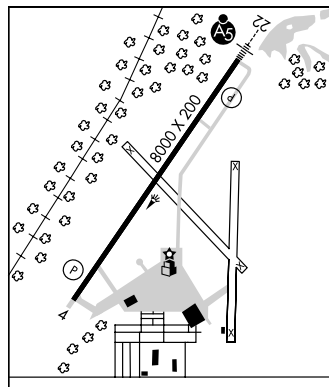
**AIRSPACE:** CLASS D svc (Mon 1500-0800Z†, Tue-Fri 1130-0800Z†, Sat-Sun 1130-0100Z†) other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MEM.

**MEMPHIS (H) VORTAC** 117.5 MEM Chan 122 N35°00.91' W89°58.99' 014° 21.2 NM to fld. 360/01E.

**NDB (MHW)** 232 MIG N35°16.83' W89°55.98' 029° 5.6 NM to fld. NOTAM FILE MKL. VFR only.

**ILS/DME** 109.75 I-NQA Chan 34(Y) Rwy 22. Class IE. Unmonitored when twr clsd.



**MOCCA** N36°33.33' W82°19.08' NOTAM FILE TRI.

CINCINNATI

NDB (LOM) 299 TR 226° 6.5 NM to Tri-Cities Rgnl TN/VA. Unmonitored when twr clsd.

L-25C

**MONROE CO** (See MADISONVILLE)

**MOORE-MURRELL** (See MORRISTOWN)

# MORRISTOWN

**MOORE-MURRELL** (MOR) 4 SW UTC-5(-4DT) N36°10.76' W83°22.53'

CINCINNATI  
H-9B, 126, L-25B  
IAP

1313 B S4 FUEL 100LL, JET A NOTAM FILE BNA  
RWY 05-23: H5717X100 (ASPH) S-25 MIRL 0.7% up SW  
RWY 05: REIL. MALSF. VASI(V4L)—GA 3.0°TCH 47'. Tree.  
RWY 23: REIL. VASI(V2L)—GA 3.0° TCH 53'. P-line.

AIRPORT REMARKS: Attended 1300Z†-dusk. Deer on and in/ovf arpt.  
MALSF ots indef. ACTIVATE VASI Rwy 05—CTAF.

WEATHER DATA SOURCES: AWOS-3 126.725 (423) 587-5886.

COMMUNICATIONS: CTAF/UNICOM 122.8

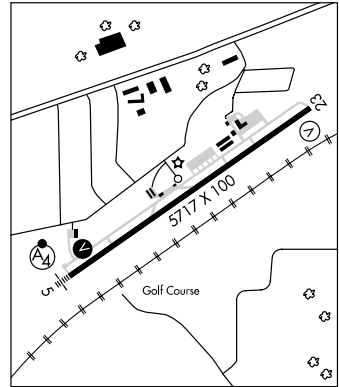
Ⓡ KNOXVILLE APP/DEP CON 132.8

RADIO AIDS TO NAVIGATION: NOTAM FILE RDU.

SNOWBIRD (L) VORTAC 108.8 SOT Chan 25 N35°47.41'  
W83°03.14' 330° 28.1 NM to fld. 4239/04W.

JEFFERSON NDB (MHW) 346 JXT N36°06.63' W83°28.54'  
054° 6.4 NM to fld. NOTAM FILE BNA.

SDF/DME 109.5 MOR Chan 32 Rwy 05. (Unmonitored  
0200-1200Z†)



# MOUNTAIN CITY

**JOHNSON CO** (6A4) 4 S UTC-5(-4DT) N36°25.07' W81°49.51'

CINCINNATI  
L-25C  
IAP

2240 S2 FUEL 100LL, JET A NOTAM FILE BNA

RWY 06-24: H4498X75 (ASPH) S-26, D-37

RWY 06: Tree. Rgt tfc. RWY 24: P-line.

AIRPORT REMARKS: Attended 1400-2200Z†. Other hrs by request. Bird  
and deer activity in/ovf arpt. Mountainous terrain; high peaks all  
quadrants. Ngt ops not recommended for transient tfc due to  
terrain. For FBO svc call 423-727-1223.

WEATHER DATA SOURCES: AWOS-3 126.225 (423) 727-4365.

COMMUNICATIONS: CTAF/UNICOM 122.7

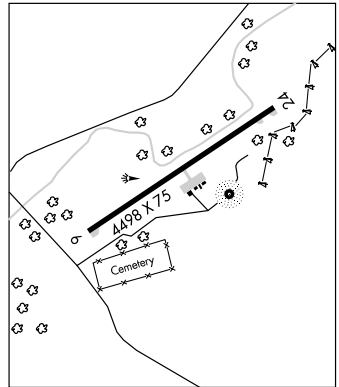
TRI CITY APP/DEP CON 134.425 (1100-0500Z†)

ATLANTA CENTER APP/DEP CON 125.15 (0500-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

HOLSTON MOUNTAIN (L) VORTAC 114.6 HMY Chan 93 N36°26.22'  
W82°07.78' 098° 14.8 NM to fld. 4321/04W.

MOUNTAIN CITY NDB (MHW) 396 JJO N36°24.99' W81°49.46'  
at fld. Unmonitored. VFR only.



**MOUNTAIN CITY** N36°24.99' W81°49.46' NOTAM FILE BNA.

CINCINNATI  
L-25C

NDB (MHW) 396 JJO at Johnson Co. Unmonitored. VFR only.



**MURFREESBORO MUNI** (MBT) 2 N UTC-6(-5DT) N35°52.65' W86°22.65'

ATLANTA

614 B S4 FUEL 100, JET A OX 2, 4 NOTAM FILE BNA

L-16J

RWY 18-36: H3898X100 (ASPH) S-30 MRL 0.4% up S

IAP

RWY 18: REIL. SAVASI(S2L)—GA 3.0° TCH 21'. Tree.

RWY 36: REIL. SAVASI(S2R)—GA 3.5° TCH 24'. Trees.

**AIRPORT REMARKS:** Attended Apr-Oct Mon-Sat 1330-0130Z†, Sun 1500-0130Z†, Nov-Mar Mon-Sat 1330-0030Z†, Sun 1500-0030Z†. General arpt information call 615-848-3254, for emerg or after hrs svc call 615-849-6031. Rwy 36 designated calm wind rwy. Extensive student flight training 1400-2300Z†. Standard tfc pattern required of all acct. Rwy 18 and 36 REIL OTS indef.

WEATHER DATA SOURCES: AWOS-3 133.975 (615) 849-2622.

COMMUNICATIONS: CTAF/UNICOM 122.7

Ⓡ NASHVILLE APP/DEP CON 118.4

GCO 135.075 (NASHVILLE CLNC)

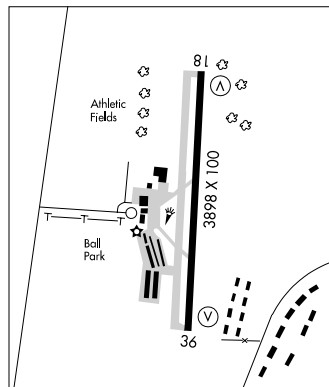
RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'

W86°26.35' 010° 19.1 NM to fld. 814/01W.

WALTER HILL NDB (MHW) 371 FQW N35°57.67' W86°22.26'

186° 5.0 NM to fld.

**MUSIC** N36°26.94' W86°59.63' NOTAM FILE BNA.

ST LOUIS

NDB (MHW) 279 ON 037° 6.4 NM to Springfield Robertson Co.

L-16J

**NALLY DUNSTON** N35°59.70' W89°24.35' NOTAM FILE MKL.

MEMPHIS

NDB (MHW) 343 DNT at Dyersburg Rgnl. NDB unmonitored Mon-Fri 0100-1300Z†,

L-16H

Sat-Sun 2300-1400Z†. SHUTDOWN.

**NASHVILLE****CORNELIA FORT AIRPARK** (M88) 5 NE UTC-6(-5DT) N36°11.42' W86°41.98'

ST LOUIS

418 S4 FUEL 100LL, JET A OX 2, 4 TPA-1000(582) NOTAM FILE BNA

L-16J

RWY 04-22: H3500X50 (ASPH) LIRL (NSTD)

RWY 04: Rgt tfc. Tree.

RWY 22: Tree.

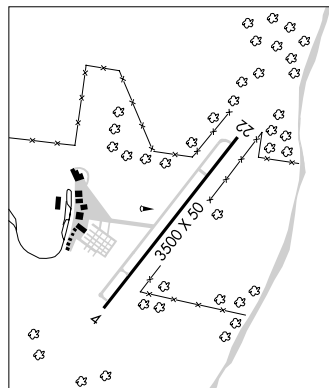
**AIRPORT REMARKS:** Attended 1300Z†-dusk. No svcs avbl Christmas day. Rwy 04-22 NSTD LIRL-NSTD height and thld lgt location. Enter rgt tfc pattern Rwy 04 from NW at 1100 ft (MSL); ctc Nashville apch con to avoid Nashville Intl tfc. Dep tfc pattern Rwy 04 W to N; otherwise ctc Nashville apch con for clnc thru area. Enter left tfc for Rwy 22 from NW at 1100 ft (MSL); ctc Nashville apch con to avoid Nashville Intl tfc. Dep tfc pattern Rwy 22 to the W to N; otherwise ctc Nashville apch con for clnc thru area.

COMMUNICATIONS: CTAF/UNICOM 123.075

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

NASHVILLE (H) VORTAC 114.1 BNA Chan 88 N36°08.22'

W86°41.09' 349° 3.3 NM to fld. 570/02W.



**JOHN C TUNE** (JWN) 1 NW UTC-6(-5T) N36°10.94' W86°53.20'

ST LOUIS

495 B S3 FUEL 100LL, JET A+ OX 2,3 TPA-1495(1000) NOTAM FILE BNA

H-6K, 9A, L-161

RWY 02-20: H5500X100 (ASPH) S-24 MIRL 0.7% up NE

IAP

RWY 02: REIL. PAPI(P4L)—GA 3.0°TCH 32'.

RWY 20: REIL. PAPI(P4L)—GA 3.0°TCH 50'. Thld dspcd 500'. Hill.

Rgt tfc.

**AIRPORT REMARKS:** Attended continuously. Bird activity invof arpt. Deer

invof arpt. Rwy 20 preferred calm wind rwy. MIRL Rwy 02-20

preset low ints SS-SR, to increase ints and ACTIVATE

SR-SS—CTAF. ACTIVATE REIL Rwy 02 and Rwy 20 and twy

lgts—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 127.075 1 (800) 645-6753. (615)

350-6222.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

® NASHVILLE APP/DEP CON 119.35 CLNC DEL 124.55

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

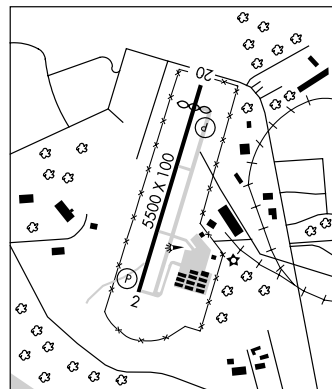
NASHVILLE (H) VORTAC 114.1 BNA Chan 88 N36°08.22'

W86°41.09' 288° 10.2 NM to fld. 570/02W.

ILS/DME 110.3 I-JWN Chan 40 Rwy 20. LOC

unmonitored Fri-Sat 0600-1100Z†.

**COMM/NAV/WEATHER REMARKS:** Frequency bleedover occurs on all frequencies 1.75 NM N of Rwy 02-20.



**NASHVILLE INTL** (BNA) 5 SE UTC-6(-5DT) N36°07.47' W86°40.69'  
599 B S4 FUEL 100LL, JET A OX 2, 4 LRA Class I, ARFF Index C

**ST LOUIS**  
H-6K, 9A, L-16J  
IAP, AD

NOTAM FILE BNA

**RWY 13-31:** H11030X150 (ASPH-CONC) S-75, D-175,  
DT-250 HIRL

**RWY 13:** REIL. VASI(V6L)—Upper GA 3.25° TCH 113.6'. Lower GA 2.75° TCH 43.5'. Thld dsplcd 801'. Trees. 0.7% up.

**RWY 31:** REIL. Thld dsplcd 741'. Tree.

**RWY 02C-20C:** H8001X150 (CONC-GRVD) S-75, D-209, ST-175,  
DT-350 HIRL

**RWY 02C:** MALSR. SAVASI(S2L)—GA 3.0° TCH 40'. 0.5% up.

**RWY 20C:** REIL. PAPI(P4L)—GA 3.0° TCH 77'. 0.4% up.

**RWY 02R-20L:** H8000X150 (CONC-GRVD) S-75, D-209, DT-350  
HIRL CL

**RWY 02R:** ALSF2. TDZL. PAPI(P4R)—GA 3.0° TCH 55'. 0.7% down.

**RWY 20L:** MALSR. PAPI(P4L)—GA 3.0° TCH 55'. 0.5% up.

**RWY 02L-20R:** H7703X150 (CONC-GRVD) S-100, D-200, DT-390  
HIRL CL 0.6% up S

**RWY 02L:** ALSF2. TDZL.

**RWY 20R:** MALSF. PAPI(P4R)—GA 3.0° TCH 77'.

#### RUNWAY DECLARED DISTANCE INFORMATION

**RWY 13:** TORA-10288 TODA-11029 ASDA-10288 LDA-9487

**RWY 31:** TORA-10228 TODA-11029 ASDA-10228 LDA-9487

**RWY 02C:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000

**RWY 20C:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000

**RWY 02L:** TORA-7702 TODA-7702 ASDA-7702 LDA-7702

**RWY 20R:** TORA-7702 TODA-7702 ASDA-7702 LDA-7702

**RWY 02R:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000

**RWY 20L:** TORA-8000 TODA-8000 ASDA-8000 LDA-8000

**AIRPORT REMARKS:** Attended continuously. Bird activity on and in/ovf arpt. Do not confuse 150 ft wide Twy S for Rwy 20C. Lgted jet blast fence 598' MSL located 1100' SE of Rwy 31 thld. Lgted jet blast fence 568 ft MSL 1167 ft NW of Rwy 13 thld. No unauthorized 180° turns for acft 12500 lbs on asph surfaces. No flight over main terminal building is permitted. Rwy 13-31 is nighttime rwy. Acft conducting visual apch to Rwy 20R 20C 20L or 13 avoid Cornelia Fort Airpark (5 miles NW of Nashville Arpt) blo 2000' MSL. Read back of all rwy holding instructions is required. Pilots comply with all hold short instructions particularly at Twy K and Rwy 20C apch; Twy L8 and Rwy 31 apch; Twy L at Rwy 13 apch; and Twy H at Rwy 31 apch. C concourse taxilanes are, inner taxilane for outbound t/c and outer taxilane for inbound t/c. Twy S between Twy S5 and S7 including Twy S6 clsd indef. Fence construction NE ramp apron D concourse lgted. Fee charged to Coml users only. All turbojet rwys have noise abatement procedures. Military fighter/attack/trainer turbojets use Rwy 13-31 for arr and dep. Flight Notification Service (ADCUS) avbl. NOTE: See Special Notices—Noise Abatement Procedures.

**WEATHER DATA SOURCES:** ASOS (615) 360-6133. LLWAS. TDWR.

**COMMUNICATIONS:** D-ATIS 135.1 UNICOM 122.95

NASHVILLE FSS (BNA) on arpt.

RCO 122.55 122.2 122.1R (NASHVILLE RADIO)

Ⓡ APP CON 127.175 (019°-199°) 120.6 (200°-018°)

Ⓡ DEP CON 119.35 (200°-018°) 118.4 (019°-199°)

TOWER 118.6 GND CON 121.9 CLNC DEL 126.05

**AIRSPACE:** CLASS C svc continuous ctc APP CON

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

(H) VORTAC 114.1 BNA Chan 88 N36°08.22' W86°41.09' at fld. 570/02W.

VORTAC unusable:

062°-069° blo 6000'

DOBBS NDB (LOM) 304 BN N36°01.86' W86°43.31' 024° 6 NM to fld.

OPERY NDB (MHW/LOM) 344 VI N36°12.24' W86°39.17' 198° 4.9 NM to fld. LOM OTS indef.

ILS/DME 111.75 I-UQU Chan 54(Y) Rwy 02R. Class IIIE. LOC unusable byd 20° right of centerline.

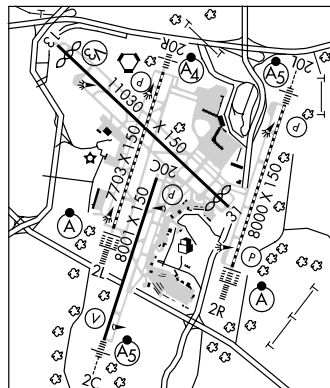
ILS/DME 109.9 I-BNA Chan 36 Rwy 02L. Class IIE. LOM DOBBS NDB.

ILS/DME 109.35 I-SSX Chan 30(Y) Rwy 20L.

ILS 110.75 I-EZN Rwy 02C.

ILS 111.95 I-PNO Rwy 31. Class IB.

ILS 111.3 I-VIY Rwy 20R. Class IB. LOM OPERY NDB. LOM OTS indef. LOC unusable byd 25° right of course.



**NEW TAZEWELL MUNI** (See TAZEWELL)

**OBION** N36°17.86' W88°59.69' NOTAM FILE MKL.  
NDB (MHW/LOM) 212 UC 005° 5.1 NM to Everett-Stewart Rgnl. Unmonitored.

ST LOUIS  
L-16H

## ONEIDA

**SCOTT MUNI** (SCX) 4 SW UTC-5(-4DT) N36°27.34' W84°35.15'

CINCINNATI  
H-9A, L-25A  
IAP

1545 B S4 FUEL 100LL, JET A NOTAM FILE BNA

RWY 05-23: H5502X75 (ASPH) S-28, D-40 MIRL 0.4% up SW

RWY 05: REIL. PAPI(P4L). Trees.

RWY 23: ODALS. REIL. PAPI(P4L)—GA 3.0°TCH 26'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1300-2300Z±, Sun

1700-2300Z±. For attendant after hrs call 423-215-3065.

Unattended Thanksgiving and Christmas day. Rwy 05-23 preset medium ints only.

**WEATHER DATA SOURCES:** AWOS-3 135.025 (423) 569-6651.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

Ⓡ **INDIANAPOLIS CENTER APP/DEP CON** 124.625

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

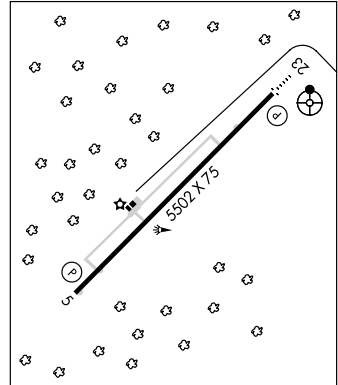
LIVINGSTON (L) VORTAC 108.4 LVT Chan 21 N36°35.07'

W85°10.00' 107° 29.1 NM to fld. 1020/02W.

PINEY GROVE NDB (MHW) 403 BPO N36°32.37' W84°28.56'

232° 7.3 NM to fld.

SDF 110.5 OLC Rwy 23. (Unmonitored 2230-1330Z±).



**OPERY** N36°12.24' W86°39.17' NOTAM FILE BNA.  
NDB (MHW/LOM) 344 VI 198° 4.9 NM to Nashville Intl. LOM OTS indef.

ST LOUIS  
L-16J

**OUTLAW FLD** (See CLARKSVILLE)

## PARIS

**HENRY CO** (PHT) 3 NW UTC-6(-5DT) N36°20.16' W88°23.07'

ST LOUIS  
H-6J, L-16I  
IAP

580 B S4 FUEL 100LL, JET A NOTAM FILE MKL

RWY 02-20: H5001X100 (ASPH) S-17 HIRL

RWY 02: ODALS. REIL. PAPI(P4L). Trees.

RWY 20: REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2230Z±, Sun

1500-2200Z±. Arpt unattended Thanksgiving, Christmas and New Years. Parachute Jumping. Ultralghts are not to cross Rwy 02-20. Parallel twy is unlgtd. Rwy 02 REIL OTS indef. Rwy 02 ODALS OTS indef. HIRL Rwy 02-20 preset medium ints, to increase ints and ACTIVATE ODALS Rwy 02—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.825 (731)644-0451.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ **MEMPHIS CENTER APP/DEP CON** 134.65

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

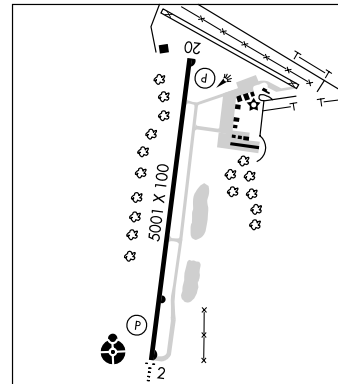
JACKS CREEK (L) VOR/DME 109.4 JKS Chan 31 N35°35.94'

W88°21.53' 356° 44.2 NM to fld. 630/02E.

TRAINER NDB (MHW) 410 TIQ N36°14.97' W88°24.92'

016° 5.4 NM to fld.

ILS 110.7 I-PHT Rwy 02.



**PERRY CO** (See LINDEN)

**PINEY GROVE** N36°32.37' W84°28.56' NOTAM FILE BNA.

CINCINNATI  
L-25A

NDB (MHW) 403 BPO 232° 7.3 NM to Scott Muni.

**PINHOOK** N35°15.24' W88°12.25' NOTAM FILE MKL.

MEMPHIS  
L-16I

NDB (MHW) 346 HHY 188° 5.0 NM to Savannah-Hardin Co. NDB unmonitored 0000-1400Z±.

SHUTDOWN.

**PORTLAND MUNI** (1M5) 3 NE UTC-6(-5DT) N36°35.57' W86°28.61'

818 B S4 FUEL 100LL, JET A OX 4 NOTAM FILE BNA

RWY 01-19: H5000X100 (ASPH) S-25 MIRL 0.9% up S

RWY 01: REIL. PAPI(P4L) Tree.

RWY 19: REIL. PAPI(P4L)—GA 3.0°TCH 21'. Tree.

**AIRPORT REMARKS:** Attended 1400-2300Z. MRL Rwy 01-19 preset low ints; to increase ints ACTIVATE—CTAF. PAPI Rwy 01 and Rwy 19 operate continuously.

**WEATHER DATA SOURCES:** AWOS-3 118.175 (615) 325-4971.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

NASHVILLE APP/DEP CON 119.35

GC0 121.725 (NASHVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BWG.

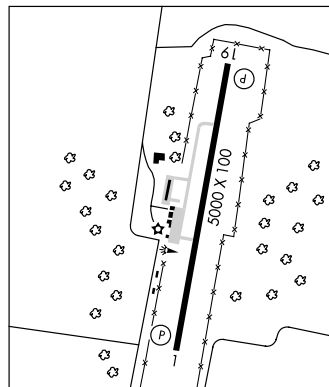
BOWLING GREEN (H) VORTACW 117.9 BWG Chan 126

N36°55.73' W86°26.61' 183° 20.2 NM to fld. 565/02E.

ST LOUIS

H-6K, 9A, L-16J

IAP



**PUCKETT GLIDERPORT** (See EAGLEVILLE)

## PULASKI

**ABERNATHY FLD** (GZS) 3 SW UTC-6(-5DT) N35°09.22' W87°03.41'

685 B FUEL 100LL, JET A NOTAM FILE MKL

RWY 16-34: H5001X75 (ASPH) S-27, D-39 MIRL 0.8% up NW

RWY 16: REIL. VASI(V2R).

RWY 34: REIL. VASI(V2L). Tree.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-0200Z, Sun 1800Z-dusk. CLOSED Christmas. After hrs call 931-363-1177 or 931-619-6827. Rock quarry approximately 1000' from Rwy 34, advance notice given to arpt when explosives are scheduled. Intermittent radio controlled acft ops afternoons and weekends.

**WEATHER DATA SOURCES:** AWOS-3 118.275 (931) 363-6760.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® MEMPHIS CENTER APP/DEP CON 125.85

**RADIO AIDS TO NAVIGATION:** NOTAM FILE ANB.

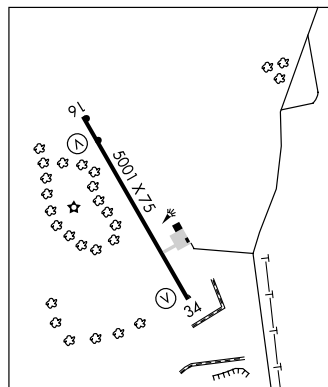
ROCKET (L) VORTACW 112.2 RQZ Chan 59 N34°47.83'

W86°38.03' 314° 29.9 NM to fld. 1199/02E.

ATLANTA

H-6J, 9A, L-16I

IAP



**REELFOOT LAKE** (See TIPTONVILLE)

**ROBERT SIBLY** (See SELMER)

**ROCKWOOD MUNI** (RKW) 3 N UTC-5(-4DT) N35°55.34' W84°41.38'

ATLANTA

1664 B S4 FUEL 100LL, JET A NOTAM FILE BNA

H-9A, 12G, L-25A

RWY 04-22: H5000X100 (ASPH) S-30, D-38 MIRL 0.6% up SW

IAP

RWY 04: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Trees.

RWY 22: REIL. PAPI(P2L)—GA 3.0°TCH 20'.

AIRPORT REMARKS: Attended Mon-Fri 1400-2200Z†, Sat 1400-2000Z†. CAUTION—Acft taxiing not visible from ends of rwy.

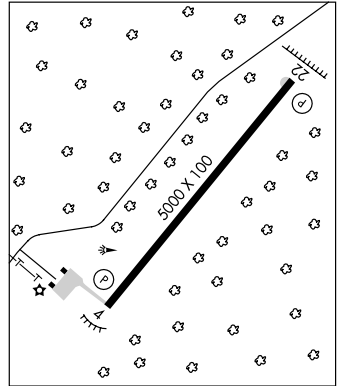
WEATHER DATA SOURCES: AWOS-3 118.775 (865) 354-9262.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ ATLANTA CENTER APP/DEP CON 133.6

RADIO AIDS TO NAVIGATION: NOTAM FILE CSV.

HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86' W84°58.71' 061° 16.4 NM to fld. 3040/02W. HIWAS.



**ROGERSVILLE** N36°27.36' W82°53.06' NOTAM FILE BNA.

CINCINNATI

NDB (MHW) 329 RVN at Hawkins Co. Unmonitored 2400-1200Z† daily.

L-25C

## ROGERSVILLE

**HAWKINS CO** (RVN) 6 NE UTC-5(-4DT) N36°27.45' W82°53.10'

CINCINNATI

1255 B S4 FUEL 100LL NOTAM FILE BNA

L-25C

RWY 07-25: H3502X75 (ASPH) S-25 MIRL 0.7% up W

IAP

RWY 07: REIL. PAPI (P4L). Trees.

RWY 25: REIL. PAPI (P4L). Trees.

AIRPORT REMARKS: Attended 1300-2300Z†. Deer on and in/ovf arpt.

Rwy 07 mountain ridges SE of arpt; 3118 ft within 9 miles.

COMMUNICATIONS: CTAF/UNICOM 122.8

Ⓡ TRI CITY APP/DEP CON 119.25 (1100-0500Z†)

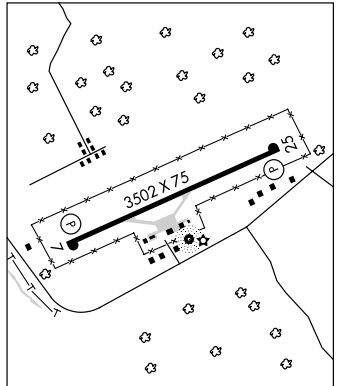
ATLANTA CENTER APP/DEP CON 127.85 (0500-1100Z†)

RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.

HOLSTON MOUNTAIN (L) VORTAC 114.6 HMV Chan 93 N36°26.22'

W82°07.78' 276° 36.6 NM to fld. 4321/04W.

ROGERSVILLE NDB (MHW) 329 RVN N36°27.36' W82°53.06' at fld. Unmonitored 2400-1200Z† daily.



## ROSSVILLE

**WOLF RIVER** (54M) 2 W UTC-6(-5DT) N35°03.24' W89°34.80'

MEMPHIS

310 FUEL 100LL NOTAM FILE MKL

RWY 18-36: 3106X100 (TURF)

RWY 18: Thld dsplcd 1000'. Trees. Rgt tfc.

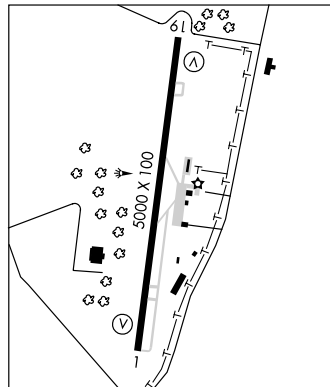
RWY 36: Trees.

AIRPORT REMARKS: Attended 1400-2300Z†. Rwy 18 thld and dsplcd thld marked with 3' white cone edge markers.

COMMUNICATIONS: CTAF 122.9

**SABRE AHP** (FORT CAMPBELL) (EOD) A 7 NW UTC-6(-5DT) N36°34.09' W87°28.85' ST LOUIS  
 593 B TPA—See Remarks NOTAM FILE MKL Not insp. L-161  
**RWY 04-22:** H4451X109 (CONC) PCN 49 R/B/W/T 0.4% up NE DIAP, AD  
**MILITARY SERVICE:** FUEL J8 **TRAN ALERT** No tran maintenance.  
**MILITARY REMARKS:** Operating station having no specific working hours, ctc Base OPS for information  
 C270-798-6122. DSN 635-6122 for PPR-6115. **RSTD** PPR for fixed wing and civilian acft. For skid acft, all  
 emergency proficiency training restricted to concrete portion of Twy A and rwy. Emergency proficiency training not  
 authorized when airfield rescue and fire fighting equipment not on site. Mandatory brief rqr for tran crew prior  
 use of R3701 or R3702. Ctc Eagle Advisory for briefing C270-798-2967. **CAUTION** Unlgt'd perimeter fence 360'  
 to 420' SE of rwy, 7' fence 241' to 370' NE Mirage helipad. **TFC PAT** TPA-1300(307) within 1 NM. Left t/c Rwy  
 22, fixed/wing 1700(1107). **MISC** Lgt'd tran parking. No tran parking for acft larger than UH60. Minimum lgt'd  
 helipad NE Twy A. 24 hour PPR.  
**WEATHER DATA SOURCES:** AWOS-3 259.425 (270) 956-3100  
**COMMUNICATIONS:** CTAF 124.675  
**Ⓡ CAMPBELL APP/DEP CON** 134.35 307.025  
**TOWER** 124.675 290.45 (Opr station having no specific working hours) **GND CON** 142.975 267.3  
**OPS** 138.7 **EAGLE RDO** 265.5  
**EAGLE CON** 128.75 (Opr 24 hrs ctc prior entry R3701, R3702, 128.75 285.625. When Sabre Twr-Fit Dispatch  
 clsd, open-close fit plan with Campbell AAF Fit Dispatch 122.95 142.9 372.2)  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE CKV.  
**CLARKESVILLE (T) VOR/DME** 110.6 CKV Chan 43 N36°37.32' W87°24.76' 227° 4.6 NM to fld. 540/01W.  
**SNUFF NDB (LOM)** 335 CK N36°31.62' W87°23.19' 297° 5.2 NM to fld. NOTAM FILE MKL.  
**ASR**  
**COMM/NAV/WEATHER REMARKS:** Radar see Terminal FLIP for Radar Minima.

**SAVANNAH-HARDIN CO** (SNH) 3 SE UTC-6(-5DT) N35°10.22' W88°13.00' MEMPHIS  
 473 B **FUEL** 100LL, JET A NOTAM FILE MKL H-61, L-161  
**RWY 01-19:** H5000X100 (CONC) S-45, D-60 MIRL 0.4% up S IAP  
**RWY 01:** VASI(V2L). Tree. **RWY 19:** VASI(V2L). Trees.  
**AIRPORT REMARKS:** Attended Mon-Sat 1400-0000Z†, Sun  
 1600-0000Z†. Arpt unattended Christmas. For svc after hrs call  
 731-925-8670 or 731-632-9959.  
**WEATHER DATA SOURCES:** AWOS-3 133.925 (731) 925-6080.  
**COMMUNICATIONS:** CTAF/UNICOM 122.8  
**Ⓡ MEMPHIS CENTER APP/DEP CON** 124.35  
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.  
**JACKS CREEK (L) VOR/DME** 109.4 JKS Chan 31 N35°35.94'  
 W88°21.53' 163° 26.6 NM to fld. 630/02E.  
**PINHOOK NDB (MHW)** 346 HHY N35°15.24' W88°12.25'  
 188° 5.0 NM to fld. NDB unmonitored 0000-1400Z†.  
**SHUTDOWN.**



**SCOTT MUNI** (See ONEIDA)

# SELMER

**ROBERT SIBLEY** (SZY) 5 NE UTC-6(-5DT) N35°12.18' W88°29.90'

610 B S4 FUEL 100LL, JET A NOTAM FILE MKL

RWY 17-35: H5002X75 (ASPH) S-17, D-23 MIRL

RWY 17: PAPI(P4L)—GA 3.0° TCH 20'. Trees.

RWY 35: REIL. PAPI(P4L). Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z, Sun 1600-2100Z. For arpt attendant and svc other times call 731-645-2287/3014. ACTIVATE MIRL Rwy 17-35—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 118.425 (731) 645-8184.

**COMMUNICATIONS:** CTAF/UNICOM 122.7

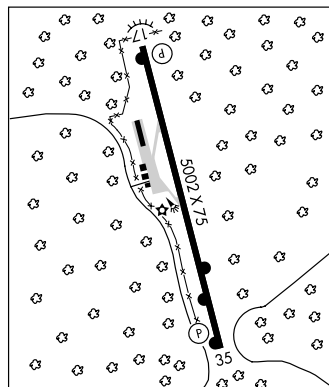
Ⓡ MEMPHIS CENTER APP/DEP CON 124.35

**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

JACKS CREEK (L) VOR/DME 109.4 JKS Chan 31 N35°35.94' W88°21.53' 194° 24.7 NM to fld. 630/02E.

SIBLEY NDB (MHW) 386 SZY N35°14.22' W88°30.96' 156° 2.2 NM to fld.

MEMPHIS  
H-6J, L-161  
IAP



# SEVIERVILLE

**GATLINBURG-PIGEON FORGE** (GKT) 2 SE UTC-5(-4DT) N35°51.47' W83°31.72'

1014 B S4 FUEL 100LL, JET A NOTAM FILE BNA

RWY 10-28: H5506X75 (ASPH) S-40, D-54 MIRL

RWY 10: REIL. PAPI(P4L)—GA 3.0° TCH 31'. Trees.

RWY 28: REIL. PAPI(P4L)—GA 4.0° TCH 40'. Thld dsplcd 339'. Hill.

**AIRPORT REMARKS:** Attended dalgt hrs. Rwy 10 PAEW NW side. Deer on and invof arpt. MIRL Rwy 10-28 preset low ints, to increase ints

ACTIVATE—CTAF. PAPI Rwy 10 and Rwy 28 opr continuously.

**WEATHER DATA SOURCES:** AWOS-3 126.875 (865) 429-5401. Wind unreliable 290°-340°.

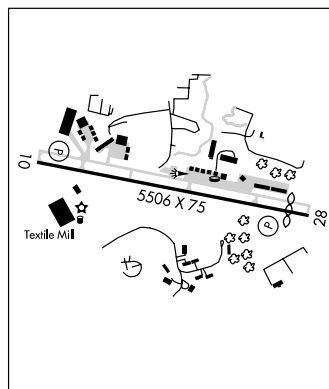
**COMMUNICATIONS:** CTAF/UNICOM 123.0

Ⓡ KNOXVILLE APP/DEP CON 132.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE TYS.

VOLUNTEER (H) VORTAC 116.4 VXV Chan 111 N35°54.29' W83°53.68' 102° 18.1 NM to fld. 1290/03W. HIWAS.

ATLANTA  
H-9B, 126, L-25B  
IAP



# SEWANEE

**FRANKLIN CO** (UOS) 1 E UTC-6(-5DT) N35°12.31' W85°53.89'

1953 B FUEL 100LL NOTAM FILE BNA

RWY 06-24: H3700X50 (ASPH) S-15, D-25 MIRL 0.9% up NE

RWY 06: PAPI(P2L). Trees.

RWY 24: PAPI(P2L). Thld dsplcd 200'. Trees.

**AIRPORT REMARKS:** Attended 1400-2300Z. Deer on and invof rwy. Rwy 06 effective gradient up 0.9%. Portion exceeds 1.8%. ACTIVATE MIRL Rwy 06-24 and PAPI Rwy 06 and Rwy 24—CTAF.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72' W86°26.35' 130° 34.1 NM to fld. 814/01W.

ATLANTA  
L-25A

**SEWART** N35°57.41' W86°27.84' NOTAM FILE BNA.

NDB (MHW) 391 SWZ 321° 4.2 NM to Smyrna. Unmonitored 0100-1300Z.

ATLANTA  
L-16J

**SHELBYVILLE** N35°33.72' W86°26.35' NOTAM FILE BNA.

(L) VOR/DME 109.0 SYI Chan 27 at Bomar Fld-Shelbyville Muni. 814/1W.

RCO 122.1R 109.0T (NASHVILLE RADIO)

ATLANTA  
H-6K, 9A, L-16J



**SHELBYVILLE****BOMAR FLD—SHELBYVILLE MUNI** (SYI) 4 N UTC−6(−5DT) N35°33.56' W86°26.55'ATLANTA  
H−6K, 9A, L−16J  
IAP

801 B S4 FUEL 100LL, JET A+ NOTAM FILE BNA  
 RWY 18−36: H5503X100 (ASPH) S−42, D−49, DT−75 MIRL  
 RWY 18: REIL. PAPI(P4L)—GA 3.0° TCH 21'.  
 RWY 36: REIL. PAPI(P4L)—GA 3.0° TCH 21'.

**AIRPORT REMARKS:** Attended 1300−0100Z†. For attendant after hrs call 931−857−0375. Unattended Thanksgiving and Christmas. MIRL  
 Rwy 18−36 preset low ints, to increase ints ACTIVATE—CTAF.

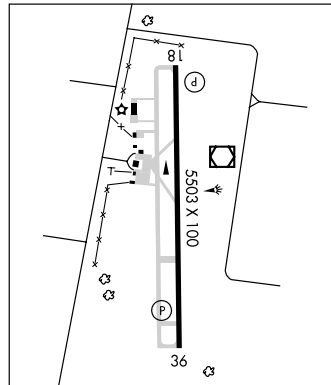
**WEATHER DATA SOURCES:** AWOS−3 119.275 (931) 685−4723.**COMMUNICATIONS:** CTAF/UNICOM 122.8

SHELBYVILLE RCO 122.1R 109.0T (NASHVILLE RADIO)

MEMPHIS CENTER APP/DEP CON 126.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'  
 W86°26.35' at fld. 814/01W.

**SIBLEY** N35°14.22' W88°30.96' NOTAM FILE MKL.MEMPHIS  
L−16J

NDB (MHW) 386 SZY 156° 2.2 NM to Robert Sibley.

**SMITHVILLE MUNI** (ØA3) 3 NE UTC−6(−5DT) N35°59.12' W85°48.56'ATLANTA  
L−25A  
IAP

1084 B NOTAM FILE BNA

RWY 06−24: H4107X75 (ASPH) S−25, D−37 MIRL

RWY 06: REIL. PAPI(P2L). Thld displcd 150'. Trees.

RWY 24: REIL. PAPI(P2L). Trees.

**AIRPORT REMARKS:** Attended Tue−Sat 1400−2300Z†, CLOSED Sun and Mon.

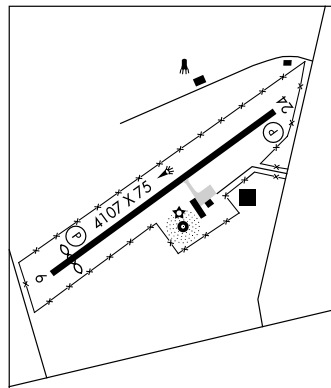
**COMMUNICATIONS:** CTAF/UNICOM 122.8

MEMPHIS CENTER APP/DEP CON 132.1

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSV.

HINCH MOUNTAIN (L) VORTAC 117.6 HCH Chan 123 N35°46.86'  
 W84°58.71' 289° 42.3 NM to fld. 3040/02W. HIWAS.

HURRICANE NDB (MHW) 256 SKN N35°59.04' W85°48.49' at  
 fld. NOTAM FILE BNA.



**SMYRNA** (MQY) 2 N UTC-6(-5DT) N36°00.54' W86°31.20'

ST LOUIS

543 B S4 FUEL 100LL, JET A OX 1, 2, 4 TPA—See Remarks Class IV, ARFF Index A

H-6K, 9A, L-16J

NOTAM FILE MQY

IAP, AD

RWY 14-32: H8037X150 (ASPH) S-95, D-112, ST-142, DT-170  
HIRL

RWY 14: REIL. PAPI(P4L)—GA 3.0° TCH 50'. Tree. Rgt tfc. 0.8% down to midpoint.

RWY 32: REIL. MALSR. PAPI(P4L)—GA 3.0° TCH 68'.

RWY 01-19: H5546X100 (ASPH) S-30, D-44, DT-70 MIRL

RWY 01: REIL. PAPI(P4L). Tree.

RWY 19: REIL. PAPI(P4L). Rgt tfc.

**LAND AND HOLD SHORT OPERATIONS**

LANDING	HOLD SHORT POINT	DIST AVBL
RWY 01	14-32	3000
RWY 14	01-19	3400
RWY 32	01-19	3950

**AIRPORT REMARKS:** Attended continuously. CLOSED to Department of Transportation certificated air carrier operations except with 24 hour prior approval call (615) 459-2651. Nashville Intl arpt tfc transits Smyrna arpt tfc area at 2500' MSL and above. 24 hr PPR required for air carrier ops over 30 passengers. Contact arpt mgr 615-459-2651. TPA—light acft 1500(957), turbo prop/jet acft 2000(1457). ACTIVATE MIRL Rwy 01-19; HIRL Rwy 14-32; REIL Rwy 14 and MALSR Rwy 32—CTAF. PAPI Rwy 01 and Rwy 19 and PAPI Rwy 14 and Rwy 32 on continuously.

**WEATHER DATA SOURCES:** ASOS 119.125. (615) 223-7716.

**COMMUNICATIONS:** CTAF 118.5 UNICOM 122.95

Ⓡ **NASHVILLE APP/DEP CON** 118.4 **CLNC DEL** 121.7 (when twr clsd)

**TOWER** 118.5 (1300-0100Z±). **GND CON** 121.4

**CLNC DEL** 121.4.

**AIRSPACE:** CLASS D svc 1300-0100Z± other times CLASS G.

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

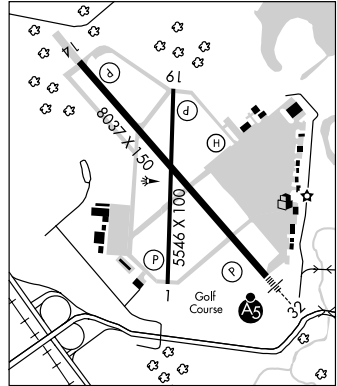
**NASHVILLE (H) VORTAC** 114.1 BNA Chan 88 N36°08.22' W86°41.09' 136° 11.1 NM to fld. 570/02W.

**SEWART NDB (MHW)** 391 SWZ N35°57.41' W86°27.84' 321° 4.2 NM to fld. Unmonitored 0100-1300Z±.

**ILS** 111.1 I-MQY Rwy 32.

**HELIPAD H1:** H40X40 (CONC)

**HELIPORT REMARKS:** H1 Perimeter lgts OTS indef. TPA—Helicopter 1000(457). Helicopters make left tfc all rwys, avoid flow of fixed wing acft.



**SNOWBIRD** N35°47.41' W83°03.14' NOTAM FILE RDU.

ATLANTA

(L) **VORTAC** 108.8 SOT Chan 25 030° 26.8 NM to Greeneville-Greene Co Muni. 4239/04W.

H-9B, L-25B

DME unusable 225°-250° byd 30 NM blo 10,000'.

**RCO** 122.1R 108.8T (RALEIGH RADIO)

**SNUFF** N36°31.62' W87°23.19' NOTAM FILE MKL.

ST LOUIS

**NDB (LOM)** 335 CK 345° 5.9 NM to Outlaw Fld. NDB unusable byd 10NM.

**SOMERVILLE** N35°12.35' W89°23.55' NOTAM FILE MKL.

MEMPHIS

**NDB (MHW)** 255 FYE at Fayette Co.

L-16H

**SOMERVILLE****FAYETTE CO** (FYE) 2 SW UTC-6(-5DT) N35°12.46' W89°23.67'

436 B S2 FUEL 100LL NOTAM FILE MKL

RWY 01-19: H5000X75 (ASPH) S-30 MIRL 0.3% up S

RWY 01: REIL. PAPI(P2L)—GA 3.0°TCH 20'. Trees.

RWY 19: REIL. PAPI(P2L)—GA 3.07°TCH 31'. Trees.

**AIRPORT REMARKS:** Attended Mon-Sat 1400-2300Z, Sun 1830-2300Z. Aerobatic activity invof arpt. If surface winds favor Rwy 01, rgt tfc for that rwy is in effect when aerobatic area is active. Airframe repairs avbl on call only-call ahead phone (901) 466-7007. Powerplant repairs avbl on call only-call ahead phone (901) 466-7007.

**WEATHER DATA SOURCES:** AWOS-3 119.875 (901) 465-6367.**COMMUNICATIONS:** CTAF 122.9

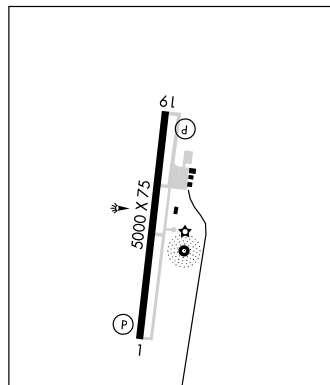
Ⓡ MEMPHIS APP CON 125.8

Ⓡ MEMPHIS DEP CON 124.15

**RADIO AIDS TO NAVIGATION:** NOTAM FILE GWO.**HOLLY SPRINGS (L) VORTAC** 112.4 HLI Chan 71 N34°46.22'

W89°29.79' 008° 26.7 NM to fld. 630/03E.

**SOMERVILLE NDB (MHW)** 255 FYE N35°12.35' W89°23.55'  
at fld. NOTAM FILE MKL.

**MEMPHIS**H-6J, L-16H  
IAP**SPAIN** N35°12.07' W90°03.07' NOTAM FILE MKL.**NDB (MHW)** 414 SPQ at General DeWitt Spain. (VFR only).**MEMPHIS**

L-16H

**SPARTA****UPPER CUMBERLAND RGNL** (SRB) 9 NW UTC-6(-5DT) N36°03.36' W85°31.84'

1025 B S4 FUEL 100LL, JET A+ NOTAM FILE BNA

RWY 04-22: H6005X100 (ASPH) S-25, D-37 HIRL

RWY 04: ODALS. REIL. PAPI(P4L). RWY 22: REIL. PAPI(P4L).

**AIRPORT REMARKS:** Attended 1300-0100Z. For arpt attendant after hrs call 931-224-9242. ACTIVATE ODALS Rwy 04-CTAF.

**WEATHER DATA SOURCES:** AWOS-3 128.25 (931) 738-3111.**COMMUNICATIONS:** CTAF/UNICOM 122.8**MEMPHIS CENTER APP/DEP CON** 132.1**GCO** 121.725 (FLIGHT SERVICES)**RADIO AIDS TO NAVIGATION:** NOTAM FILE CSV.

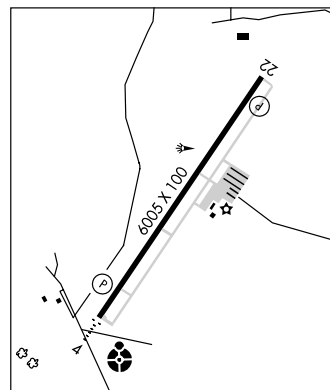
**HINCH MOUNTAIN (L) VORTAC** 117.6 HCH Chan 123 N35°46.86'  
W84°58.71' 304° 31.6 NM to fld. 3040/02W. HIWAS.

**HUCHN NDB (MHW)** 233 HEM N35°59.28' W85°35.17' 036°  
4.9 NM to fld. NOTAM FILE BNA.

NDB unmonitored 0100-1300Z.

**ILS/DME** 110.1 I-SRB Chan 38 Rwy 04. Class IA.

(Unmonitored 0400-1400Z) LOC unusable within 1.6 DME.

**ST LOUIS**H-9A, L-25A  
IAP

**SPRINGFIELD ROBERTSON CO** (M91) 3 NW UTC-6(-5DT) N36°32.24' W86°55.24'

ST LOUIS

706 B S4 FUEL 100LL, JET A, A1 TPA-1706(1000) NOTAM FILE BNA

H-6K, 9A, L-161

RWY 04-22: H5005X100 (ASPH) S-38, D-52 MIRL

IAP

RWY 04: REIL. PAPI(P4L). Trees.

RWY 22: REIL. PAPI(P4L)—GA 4.0°TCH 26'.

**AIRPORT REMARKS:** Attended 1400Z†-dusk. After hrs call out fee. Rwy 04 PAPI OTS indef. MIRL Rwy 04-22 preset on low ints; to increase ints ACTIVATE—CTAF.

**WEATHER DATA SOURCES:** AWOS-3 120.675 (615) 384-8206.

**COMMUNICATIONS:** CTAF/UNICOM 123.0

NASHVILLE APP/DEP CON 119.35

GCO 121.725 (NASHVILLE CLNC)

**RADIO AIDS TO NAVIGATION:** NOTAM FILE CKV.

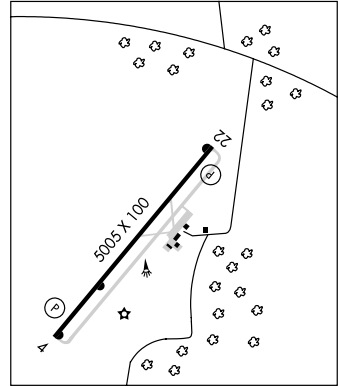
CLARKSVILLE (T) VOR/DME 110.6 CKV Chan 43 N36°37.32'

W87°24.76' 103° 24.3 NM to fld. 540/01W.

MUSIC NDB (MHW) 279 ON N36°26.94' W86°59.63'

037° 6.4 NM to fld. NOTAM FILE BNA.

ILS 109.7 I-ONE Rwy 04. LOM MUSIC NDB. LOC only.



**SUMNER CO RGNL** (See GALLATIN)

**TAZEWELL**

**NEW TAZEWELL MUNI** (3A2) 3 SE UTC-5(-4DT) N36°24.61' W83°33.33'

CINCINNATI

L-25B

1179 B S4 FUEL 100LL NOTAM FILE BNA

RWY 07-25: H3000X75 (ASPH) S-4, D-8 MIRL

RWY 07: REIL. PAPI(P2L).

RWY 25: REIL. PAPI(P2L).

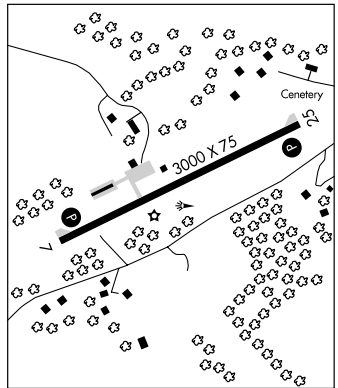
**AIRPORT REMARKS:** Attended Apr-Oct 1300-2300Z†, Nov-Mar 1300-2100Z†. Deer on or invof arpt. Rwy 25 PAPI OTS indef. ACTIVATE PAPI Rws 07 and 25—CTAF.

**COMMUNICATIONS:** CTAF 122.9

**RADIO AIDS TO NAVIGATION:** NOTAM FILE TYS.

VOLUNTEER (H) VORTAC 116.4 VXV Chan 111 N35°54.29'

W83°53.68' 031° 34.5 NM to fld. 1290/03W. HIWAS.



**THORNTON** (See BROWNSVILLE)

**TIPTONVILLE****REELFOOT LAKE** (ØM2) 9 NE UTC-6(-5DT) N36°28.52' W89°20.77'ST LOUIS  
L-16H

289 B S4 NOTAM FILE MKL

RWY 01-19: H3500X75 (ASPH) S-25, D-37

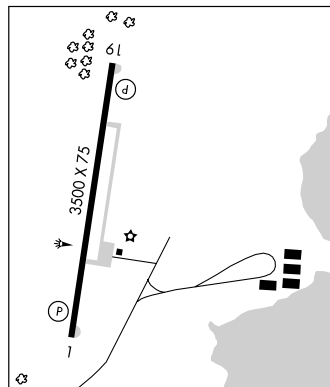
RWY 01: PAPI(P2L)—GA 4.0°TCH 26'. Trees.

RWY 19: PAPI(P2L)—GA 4.0°TCH 31'. Trees. Rgt tfc.

**AIRPORT REMARKS:** Unattended. Maintain 2000 ft over Lake E of arpt (Federal Game Refuge). Rotating bcn OTS indef. Rwy 01 PAPI OTS indef.**COMMUNICATIONS:** CTAF 122.9**RADIO AIDS TO NAVIGATION:** NOTAM FILE STL.

MALDEN (L) VORTAC 111.2 MAW Chan 49 N36°33.31'

W89°54.69' 097° 27.8 NM to fld. 280/03E.

**TRAINER** N36°14.97' W88°24.92' NOTAM FILE MKL.ST LOUIS  
L-16I

NDB (MHW) 410 TIQ 017° 5.5 NM to Henry Co.

**TRENTON****GIBSON CO** (TGC) 5 SE UTC-6(-5DT) N35°55.95' W88°50.94'MEMPHIS  
L-16H  
IAP

359 B FUEL 100LL, JET A OX 1 NOTAM FILE MKL

RWY 01-19: H4800X75 (ASPH) S-30 MIRL

RWY 01: REIL. VASI(V2L). Trees.

RWY 19: REIL. VASI(V2L). Tree.

**AIRPORT REMARKS:** Attended Tue-Sat 1500-2300Z, Sun 1900-2200Z, clsd Mon. Rwy 01 VASI OTS indef. Rwy 19 REIL OTS indef.**COMMUNICATIONS:** CTAF/UNICOM 122.8

® MEMPHIS CENTER APP/DEP CON 134.65

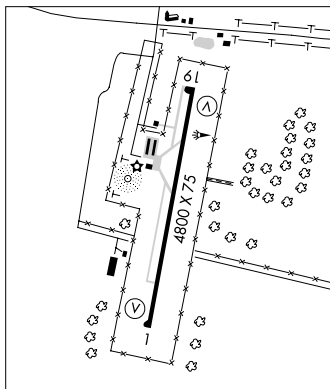
**RADIO AIDS TO NAVIGATION:** NOTAM FILE DYR.

DYERSBURG (L) VORTACW 116.8 DYR Chan 115 N36°01.11'

W89°19.06' 100° 23.4 NM to fld. 380/03E. HIWAS.

GIBSON NDB (MHW) 378 TGC N35°56.05' W88°51.05' at fld.

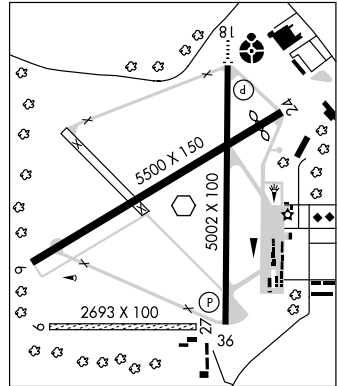
NOTAM FILE MKL. SHUTDOWN.

**TRI-CITIES RGNL TN/VA** (See BRISTOL/JOHNSON/KINGSPORT)

**TULLAHOMA RGNL ARPT/WM NORTHERN FLD** (THA) 2 NW UTC-6(-5DT)

ATLANTA  
H-6K, 9A, L-16J  
IAP

N35°22.80' W86°14.80'  
1083 B S4 FUEL 100, JET A NOTAM FILE BNA  
RWY 18-36: H5002X100 (ASPH-CONC) S-37 MIRL  
RWY 18: ODALS. REIL. PAPI(P2L)—GA 3.25° TCH 34'. Trees.  
RWY 36: REIL. PAPI(P2L)—GA 2.75° TCH 48'. Tree.  
RWY 06-24: H5500X150 (ASPH-CONC)  
RWY 06: Tree. RWY 24: Thld displcd 501'. Tree.  
RWY 09-27: 2693X100 (TURF)  
RWY 09: Trees. RWY 27: Trees.  
AIRPORT REMARKS: Attended dalgt hrs. Geese and deer on and infov  
arpt. ACTIVATE MIRL Rwy 18-36 and ODALS Rwy 18—CTAF.  
WEATHER DATA SOURCES: AWOS-3 128.325 (931) 454-2052.  
COMMUNICATIONS: CTAF/UNICOM 123.0  
MEMPHIS CENTER APP/DEP CON 126.75  
RADIO AIDS TO NAVIGATION: NOTAM FILE BNA.  
SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'  
W86°26.35' 140° 14.4 NM to fld. 814/01W.  
(T) VORW 109.65 UXM N35°22.83' W86°14.75' at fld.  
BURWI NDB (MHW) 332 ULH N35°27.70' W86°14.50' 186°  
4.9 NM to fld. Unmonitored 0000-1400Z†.  
SDF 110.9 THA Rwy 18. Unmonitored 0000-1400Z†.

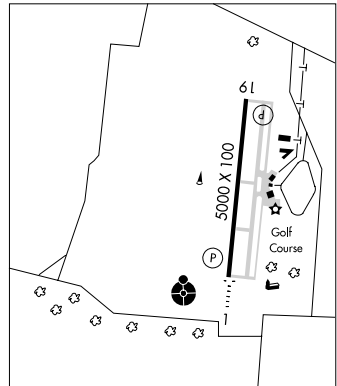


**UNION CITY**

**EVERETT-STEWART RGNL** (UCY) 4 SE UTC-6(-5DT) N36°22.91' W88°59.13'

ST LOUIS  
H-6J, L-16H  
IAP

336 B S4 FUEL 100LL, JET A NOTAM FILE MKL  
RWY 01-19: H5000X100 (ASPH) S-45, D-60 MIRL 0.5% up S  
RWY 01: ODALS. REIL. PAPI(P4L)—GA 3.0° TCH 27'. Silo.  
RWY 19: REIL. PAPI(P4L)—GA 3.0° TCH 27'. Trees.  
AIRPORT REMARKS: Attended dalgt. Aerobatic activity infov arpt. If sfc  
winds favor Rwy 01, rgt tfc for that rwy in effect when aerobatic  
area is active. ACTIVATE ODALS Rwy 01—CTAF.  
WEATHER DATA SOURCES: AWOS-3 135.325 (731) 885-9161.  
COMMUNICATIONS: CTAF/UNICOM 122.7  
Ⓡ MEMPHIS CENTER APP/DEP CON 133.65  
RADIO AIDS TO NAVIGATION: NOTAM FILE DYR.  
DYERSBURG (L) VORTACW 116.8 DYR Chan 115 N36°01.11'  
W89°19.06' 033° 27.1 NM to fld. 380/03E. HIWAS.  
OBION NDB (MHW/LOM) 212 UC N36°17.86' W88°59.69'  
005° 5.1 NM to fld. NOTAM FILE MKL. Unmonitored.  
ILS 109.7 I-UCY Rwy 01. LOM OBION NDB.



**UPPER CUMBERLAND RGNL** (See SPARTA)

**VERONA** N35°30.03' W86°48.58' NOTAM FILE MKL.  
NDB (MHW) 251 LUG at Ellington. Unmonitored 0100-1300Z†.

ATLANTA  
L-16J

**VOLUNTEER** N35°54.29' W83°53.68' NOTAM FILE TYS.  
(H) VORTAC 116.4 VXV Chan 111 224° 7.4 NM to Mc Ghee Tyson. 1290/03W. HIWAS  
RCO 122.1R 116.4T (NASHVILLE RADIO)

ATLANTA  
H-9B, 126, L-25B

**WALTER HILL** N35°57.67' W86°22.26' NOTAM FILE BNA.  
NDB (MHW) 371 FQW 186° 5.0 NM to Murfreesboro Muni.

ATLANTA  
L-16J

**WARREN CO MEML** (See McMinnville)

**WARRI** N35°45.15' W85°45.85' NOTAM FILE BNA.  
NDB (MHW) 209 RN 232° 5.1 NM to Warren Co Meml. NDB unmonitored.

ATLANTA  
L-25A

**WAVERLY** N36°06.97' W87°44.48' NOTAM FILE MKL.  
NDB (MHW) 329 AEY at Humphreys Co.

ST LOUIS  
L-161

**WAVERLY**

**HUMPHREYS CO** (ØM5) 3 NE UTC-6(-5DT) N36°07.00' W87°44.29'

ST LOUIS  
L-161  
IAP

756 B FUEL 100LL, JET A NOTAM FILE MKL

RWY 03-21: H4000X75 (ASPH) S-30 MIRL 0.6% up SW

RWY 03: VASI(V2L)—GA 3.0°TCH 26'. Trees.

RWY 21: VASI(V2L)—GA 3.0°TCH 26'. Trees.

**AIRPORT REMARKS:** Attended 1400-2300Z±. Self svc credit card fuel avbl 24 hrs. Computerized local weather conditions and facts avbl at terminal. No radio controlled model acft permitted. Rwy 21 VASI OTS indef. Rwy 03 VASI OTS indef.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

® **MEMPHIS CENTER APP/DEP CON** 125.85

GCO 135.075 (JACKSON CLNC)

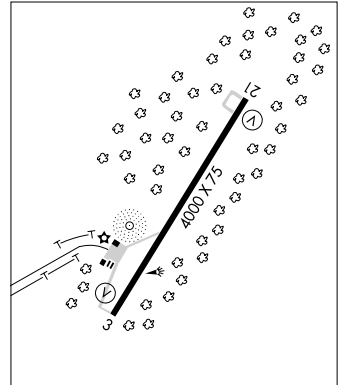
**RADIO AIDS TO NAVIGATION:** NOTAM FILE MKL.

GRAHAM (L) VORTAC 111.6 GHM Chan 53 N35°50.04'

W87°27.11' 318° 21.9 NM to fld. 770/03E.

**WAVERLY NDB (MHW)** 329 AEY N36°06.97' W87°44.48'  
at fld.

**COMM/NAV/WEATHER REMARKS:** GCO OTS indef.



**WILLIAM L. WHITEHURST FLD** (See BOLIVAR)

**WINCHESTER MUNI** (BGF) 3 SE UTC-6(-5DT) N35°10.65' W86°03.97'

ATLANTA  
H-6K, 9A, L-16J  
IAP

979 B S4 FUEL 100LL, JET A NOTAM FILE BNA

RWY 18-36: H5002X75 (ASPH) S-30, D-42 MIRL

RWY 18: REIL. PAPI(P2L)—GA 3.0° TCH 80'. Trees.

RWY 36: REIL. PAPI(P2L)—GA 3.5° TCH 80'. Trees.

**AIRPORT REMARKS:** Attended 1400Z±-dusk. Arpt unattended Christmas, New Year's Eve and Thanksgiving. For attendant after hrs call 931-967-3148. Heavy non-radio equipped tfc first Sat of each month. Unicom monitored irregularly.

**WEATHER DATA SOURCES:** AWOS-3 121.675 (931) 967-8445.

**COMMUNICATIONS:** CTAF/UNICOM 122.8

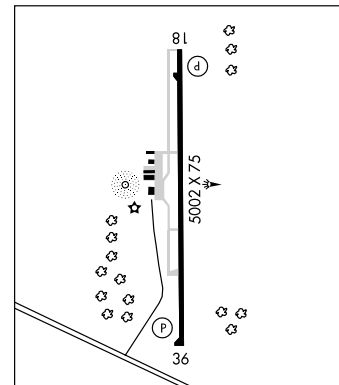
MEMPHIS CENTER APP/DEP CON 126.75

**RADIO AIDS TO NAVIGATION:** NOTAM FILE BNA.

SHELBYVILLE (L) VOR/DME 109.0 SYI Chan 27 N35°33.72'

W86°26.35' 142° 29.4 NM to fld. 814/01W.

**BOILING FORK NDB (MHW)** 263 BGF N35°10.68' W86°04.09'  
at fld. Unmonitored 0000-1400Z±.



**WOLF RIVER** (See ROSSVILLE)

### 2009 U.S. & CANADIAN MILITARY AERIAL AIRCRAFT/PARACHUTE DEMONSTRATIONS

During CY 2009, the U.S. and Canadian Military Aerial Demonstration Teams (Thunderbirds, Blue Angels, Snowbirds, and Golden Knights) will be performing on the dates and locations listed below.

Pilots should expect Temporary Flight Restrictions (TFR) in accordance with 14 CFR Section 91.145, Management of aircraft operations in the vicinity of aerial demonstrations and major sporting events. The dimensions and effective times of the TFRs may vary based upon the specific aerial demonstration event and will be issued via the U.S. NOTAM system. Pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding these airspace restrictions.

The currently scheduled 2009 aerial demonstration locations, subject to change without notice, are:

DATE:		USAF Thunderbirds	USN Blue Angels	Canadian Snowbirds	USA Golden Knights
October	24-25		Fort Worth, TX		Fort Worth, TX
	24-25				Pinehurst, NC
	31		Houston, TX		
November	1		Houston, TX		
	7-8	Homestead AFB, FL	Jacksonville Beach, FL		
	13-14		NAS Pensacola, FL		
	14-15	Nellis AFB, NV			

Note: Dates and locations are scheduled "show dates" only and do not reflect arrival or practice date TFR periods that may precede the specific aerial demonstration events listed above. Again, pilots are strongly encouraged to check FDC NOTAMs to verify they have the most current information regarding any airspace restrictions.



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**NOISE ABATEMENT PROCEDURES  
COVINGTON, KY, CINCINNATI/NORTHERN KENTUCKY INTL AIRPORT (CVG)**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no further than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**AEROBATIC PRACTICE AREA  
Jack Edwards Airport (JKA)  
Gulf Shores, AL**

Aerobatic flight activity will be conducted within a 2 NM radius of airport. Contact UNICOM for traffic and Anniston AFSS for specific times.

**Fayette County, Somerville, Tennessee**

Aerobatic training and practice is conducted in a 3500' symmetrical box located 500 feet west of Rwy 01-19 from the sfc to 4500 MSL. If surface winds favor Rwy 01, right traffic for that rwy is in effect when area is active.

Pilots should use caution within this area. For further information contact Jackson AFSS on 1-901-423-1289.

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**CONTROLLED FIRING AREA  
Milan, Tennessee**

Controlled Firing Area 5 NM radius 2500' & blo of MKL 030/018, eff. Mon-Fri 1200-2300Z, Sat 1530-2230Z, Sun 1230-1700Z.

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**Helicopter Activity  
Mosby Army Heliport, Dahlongega, GA Area**

Occasional military helicopter activity within 15NM radius of Mosby AHP, (34°37'N/84°06'W) SFC to 3700 MSL. Activity includes: flight formations, personnel transport operations, cargo para-drop operations (below 500 AGL), medical evacuation and night vision device training. CTAF 227.2, 139.3, "Mountain Ranger 08" FM 34.10. Staff Duty Officer, Camp Frank D. Merrill, (706) 864-3367.

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**NIGHT VISION LIGHTS OUT OPERATIONS  
North Carolina, South Carolina**

Military helicopter activity will be conducted for Night Vision Lights Out Training in North Carolina and South Carolina. Position lights will be extinguished or greatly reduced in intensity. The training is conducted in areas of low air traffic and not within four (4) miles of a public use airport. Training is IAW exemption to Far Part 91.

Boundaries: Beginning at Lat 35°41'N, Lon 78°30'W; to Lat 34°00'N, Lon 78°30'W; to Lat 34°00'N, Lon 80°00'W; to Lat 36°00'N, Lon 80°30'W; to point of beginning.

Times of use: Sunset to sunrise, daily.

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**Helicopter Activity  
Camp Blanding, Starke, Florida Area**

Heavy military helicopter activity within 9 NM radius Blanding AAF, (29°57'7.84"N; 81°58'47.32"W). Surface to 1,500 feet. Activity includes: flight formations, personnel transport operations, sling loads, MED VAC, and night vision goggle training. Mon-Sat 1300-0500Z, 1300-2000Z, Sun. Blanding Twr 123.0 by NOTAM, other times Range Control 123.0. (904) 533-3113/3352.

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**Cuban Flight Advisory  
(UNTIL FURTHER NOTICE)**

The Federal Aviation Administration has been informed that an official Cuban government publication has issued a warning that Cuban Armed Forces will shoot down any aircraft that penetrates Cuban Airspace illegally and refuses to obey an order to land for inspection.

All pilots should take note: use extreme caution in the area of Cuban Airspace; adhere strictly to Cuban requirements for overflight of their territory.

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**LASER LIGHT DEMONSTRATIONS****Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Disney MGM Studios Theme Park, Lake Buena Vista, Florida (ORL 226 radial, 16.2 NM, LAT 28°21'42"N, LON 81°33'29"W), from 6:00 PM until 4:00 AM, until further advised. The beam may be injurious to eyes if viewed within 3,000 feet vertically and/or 12,000 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

**Lake Buena Vista, Florida**

A laser light demonstration will be conducted at Epcot Center, Lake Buena Vista, Florida (ORL 226 radial, 16 NM, lat 28°22'N, long 81°32'W), from 6:00 pm until 4:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 1 nautical mile laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

**Miami, Florida**

A permanent laser light demonstration will be conducted at Bayfront Park, Miami, Florida (VKZ 312 radial, 2.24 NM, Lat 25°46'41"N, Lon 80°11'12"W), from 8:00 p.m. until 12:00 a.m. until further advised. The laser light beam is not expected to elevate above the horizon from a 90 foot high platform. Laser light beam may be injurious to eyes if viewed within 4,400 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Miami Beach, Florida**

A permanent Laser Light Demonstration will be conducted at the Amnesia Club, located in Miami Beach, Florida, Lat 25°46'N/Long 80°08'W, nightly from dusk until 2 AM.

Laser Light beam may be injurious to eyes if viewed within 3,500 feet vertically and/or 2,000 feet laterally of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Orlando, Florida**

A laser light demonstration will be conducted at Sea World of Florida, Orlando, Florida (ORL 220 radial, 11 NM, Lat 27°24'N, Long 81°27'W), from 6:30 pm until 12:00 am, until further advised. The beam may be injurious to eyes if viewed within 5000 feet vertically and/or 6500 feet laterally of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

A permanent laser light demonstration will be conducted at the Walt Disney World, Alien Encounter, Orlando, Florida, ORL VORTAC 239 radial, 15 nautical miles, from Dusk to 12:00 AM daily.

Laser light beam may be injurious to eyes if viewed within 2500 feet laterally and/or 2500 feet vertically of the light source. Cockpit illumination–flash blindness may occur beyond these distances.

**Decatur, Georgia**

Laser light activity will be conducted at Agnes Scott College, Decatur, GA located at Lat 33° 45' 55"N/Long 84° 17' 39"W (ATL 041° radial, 11 NM), intermittent daily, at an angle of 90 degrees from the surface, projecting up to 14,036 feet, until further notice. Flash blindness or cockpit illumination may occur beyond these distances.

**Clemson, South Carolina**

A permanent laser light demonstration will be conducted at Clemson University, Clemson, South Carolina, ELW VORTAC 353R/18NM, from dusk until dawn, daily.

Laser light beam may be injurious to eyes if viewed within 3,500 feet laterally and/or 3,500 feet vertically of the light source. Flash blindness or cockpit illumination may occur beyond these distances.

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**LASER LIGHT EXPERIMENT****Arecibo Observatory, Puerto Rico**

Location: 18°-20'-37"N 66°-45'-11"W

A Laser Light Beam Experiment will be conducted at the Arecibo Observatory, Puerto Rico (PSE 340/30), from one hour before sunset until one hour after sunrise twice weekly (by NOTAM).

Laser light beam may be injurious to eyes if viewed within 5,000 feet vertical and/or one nautical mile lateral of the light source. Cockpit illumination-flash blindness may occur beyond these distances.

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**MEMPHIS, TN****MEMPHIS INTL AIRPORT (MEM) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 2 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**NASHVILLE, TN****NASHVILLE INTL AIRPORT (BNA) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 20L and 20R are authorized, with course divergence beginning within 1 mile of the departure end of parallel runways, due to noise abatement restrictions.

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**CHARLOTTE, NC****CHARLOTTE/DOUGLAS INTL AIRPORT (CLT) NOISE ABATEMENT PROCEDURES**

Successive or simultaneous departures from Runways 18L and 18R are authorized, with course divergence beginning no later than 3 miles from the departure end of parallel runways, due to noise abatement restrictions.

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**AIRSPACE DELEGATED TO MACDILL AFB**

From 1100-2300 UTC (0700-1900 Local) daily, the following airspace that lies within the Tampa CLASS B Airspace will be delegated to MacDill AFB ATCT for airport traffic control services, and CLASS B Airspace services will not be provided within this portion of the CLASS B Airspace:

That airspace which extends from 1,200 feet MSL up to and including 1,600 feet MSL, south of a line located 1½ miles west of and parallel to MacDill AFB Runway 4/22 extended runway centerline, within a 4.5 NM radius from the geographical center of the MacDill AFB Airport.

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**Indianapolis ARTCC  
NABB INDIANA AREA****New Hope, London, Lexington Kentucky Area**

Indianapolis Center has installed frequencies in the southern portion of their airspace that require 720-channel radio capability.

Pilots should be aware that if they fly in the Nabb, IN, or the New Hope, London, and Lexington, KY, area without a 720-channel radio, ATC services will be greatly reduced. Traffic advisories, weather information, airport information, along with any other direct communication services will not be available.

While in this area of Indianapolis Center, pilots without 720-channel capability will, in most cases, monitor Flight Service Stations. There will be a noticeable delay in all clearance activity. Please ensure that ATC has adequate lead time in the event of problems or clearance requirements.

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**HELICOPTER ACTIVITY ORLANDO, FL AREA.**

Heavy helicopter activity over the Disney attractions, Sea World, Universal Studios, Bay Hill and surrounding area. Surface to 1000' MSL. Operations 24 hours daily. Helicopters, transmitting and receiving on 123.02.

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**CAUTION-TETHERED AEROSTAT RADAR SYSTEM (TARS)**

A TARS (a large helium-filled balloon) operates continuously up to 14,000 feet, except during inclement weather or when the system is down for maintenance, in R-2916 at Cudjoe Key, Florida. The tether is unmarked and is virtually impossible to see from only a few hundred feet. See the Miami Sectional Chart for location.

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**SPECIAL NORTH ATLANTIC, CARIBBEAN AND PACIFIC AREA COMMUNICATIONS**

VHF air-to-air frequencies enable aircraft engaged in flights over remote and oceanic areas out of range of VHF ground stations to exchange necessary operational information and to facilitate the resolution of operational problems.

Frequencies have been designated as follows:

North Atlantic area:	123.45 MHz
Caribbean area:	123.45 MHz
Pacific area:	123.45 MHz

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**ST. PETERSBURG, FLORIDA**

Pilots planning to overfly the St. Petersburg VORTAC (PIE) below 13,000 feet MSL should file via the Lakeland VORTAC (LAL) between 1100 and 2300 UTC.

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**GEORGIA**

Atlanta Tower: Low altitude airway structure in proximity of the Hartsfield-Jackson Atlanta Intl Airport is aligned to provide bypass routes for traffic overflying Atlanta. To avoid heavy concentration of high performance and wide-bodied aircraft, pilots should file for airways beyond 35 nautical miles from Atlanta VOR. Aircraft operating IFR below 15,000 MSL, via airways within 35 nautical miles of Atlanta VOR may expect altitude changes and/or rerouting between the hours 0830 and 2100 local.

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**U.S. SPECIAL CUSTOMS REQUIREMENT**

Air Commerce Regulations of the Treasury Department's Customs Service require all private aircraft arriving in the U.S. from a foreign place in the Western Hemisphere, (a) south of 33 degrees north latitude which cross into the U.S. over a point on the U.S./Mexican border between 97 and 120 degrees west longitude, or (b) south of 31 degrees north latitude which enter the U.S. via the Gulf of Mexico and Atlantic Coasts, to provide notice of intended arrival to the Customs Service at least one hour prior to crossing the U.S./Mexican border or the U.S. coastline. This notice may be provided by: (1) radio through an appropriate FAA Flight Service Station, (2) normal FAA flight plan notification procedures (a flight plan filed in Mexico does not meet this requirement due to unreliable relay of data), or (3) directly to the District Director of Customs or other Customs officer at place of first intended landing. Unless an exemption has been granted by Customs, private aircraft are required to make first landing in the U.S. at one of the following designated airports nearest to the point of border or coastline crossing:

Brownsville International, Corpus Christi International, Del Rio International, Eagle Pass Airport, El Paso International, Hobby Airport, Jefferson County Airport, Laredo International, Miller International, or Presidio-Lely International in Texas; Calexico International, or Brown Field in California; Bisbee Douglas International, Nogales International, Tuscon International, or Yuma International in Arizona; Las Cruces Intl in New Mexico; Lakefront or Louis Armstrong New Orleans Intl in Louisiana; Fort Lauderdale Executive, Fort Lauderdale-Hollywood International, Key West Airport, Miami International, Opa-Locka Airport, St. Lucie County International, Tampa International, or West Palm Beach Airport in Florida.

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## MILITARY TRAINING ROUTES

The DOD Flight Information Publication AP/1B provides textual and graphic descriptions and operating instructions for all military training routes (IR, VR, SR) and refueling tracks/anchors. Complete and more comprehensive information relative to policy and procedures for IRs and VRs is published in FAA Handbook 7610.4 (Special Military Operations) which is agreed to by the DOD and therefore directive for all military flight operations. The AP/1B is the official source of route data for military users.

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## CIVIL USE OF MILITARY FIELDS:

U.S. Army, Air Force, Navy and Coast Guard Fields are open to civil fliers only in emergency or with prior permission.

Army Installations, prior permission is required from the Commanding Officer of the installation.

For Air Force installations, prior permission should be requested at least 30 days prior to first intended landing from either Headquarters USAF (PRPOC) or the Commander of the installation concerned (who has authority to approve landing rights for certain categories of civil aircraft). For use of more than one Air Force installation, requests should be forwarded direct to Hq USAF (PRPOC), Washington, D.C. 20330.

Use of USAF installations must be specifically justified.

For Navy and Marine Corps installations prior permission should be requested at least 30 days prior to first intended landing. An Aviation Facility License must be approved and executed by the Navy prior to any landing by civil aircraft.

Forms and further information may be obtained from the nearest U.S. Navy or Marine Corps aviation activity.

For Coast Guard fields prior permission should be requested from the Commandant, U.S. Coast Guard via the Commanding Officer of the field.

When instrument approaches are conducted by civil aircraft at military airports, they shall be conducted in accordance with the procedures and minimums approved by the military agency having jurisdiction over the airport.

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## AIRCRAFT RESTRICTIONS BOCA RATON AIRPORT, FLORIDA

On initial contact, pilot should advise local Air Traffic Control Tower or announce on local Unicom frequency if aircraft has greater than 79 feet wingspan and/or greater than 140 knot approach speed. Aircraft with wingspan greater than 79 feet and/or an approach speed greater than 140 knots are prohibited from using Runway 5/23 while any aircraft occupies Taxiway P. Aircraft with a wingspan greater than 79 feet must remain clear of Taxiway P while any aircraft are approaching or departing Runway 5/23.

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## AIRCRAFT LANDING RESTRICTIONS

Landing of aircraft at locations other than public use airports may be a violation of Federal or local law. All land and water areas are owned or controlled by private individuals or organizations, states, cities, local governments, or U.S. Government agencies. Except in emergency, prior permission should be obtained before landing at any location that is not a designated public use airport or seaplane base.

Landing of aircraft is prohibited on lands or waters administered by the National Park Service, U.S. Fish and Wildlife Service, U.S. Forest Service, and on many areas controlled by the U.S. Army Corps of Engineers, unless prior authorization is obtained from the respective agency.

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## FEDERAL AVIATION REGULATION 91.713

The provisions of FAR 91.713 will apply as follows:

Air traffic clearances to aircraft of Cuban registry not engaged in scheduled International Air Service in U.S. airspace will require that the flight plan be filed with appropriate authorities at least five days prior to the proposed departure time. Route changes while en route will normally not be authorized. The procedures set forth herein do not apply at this time to overflights by aircraft of Cuban registry engaged in scheduled International Air Service.

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## CAUTION—HIGH DENSITY AIR TRAFFIC AREA

Heavy helicopter and seaplane traffic exists over the Gulf of Mexico and adjacent onshore areas. Thousands of operations per month occur in this area in support of oil drilling and exploration.

Itinerant pilots traversing this area should familiarize themselves with offshore operating practices and frequencies through contact with the pertinent Flight Standards District Office (FSDO) or Flight Service Station.

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### CONTINUOUS POWER FACILITIES

In order to insure that a basic ATC system remains in operation despite an areawide or catastrophic commercial power failure, key equipment and certain airports have been designated to provide a network of facilities whose operational capability can be utilized independent of any commercial power supply.

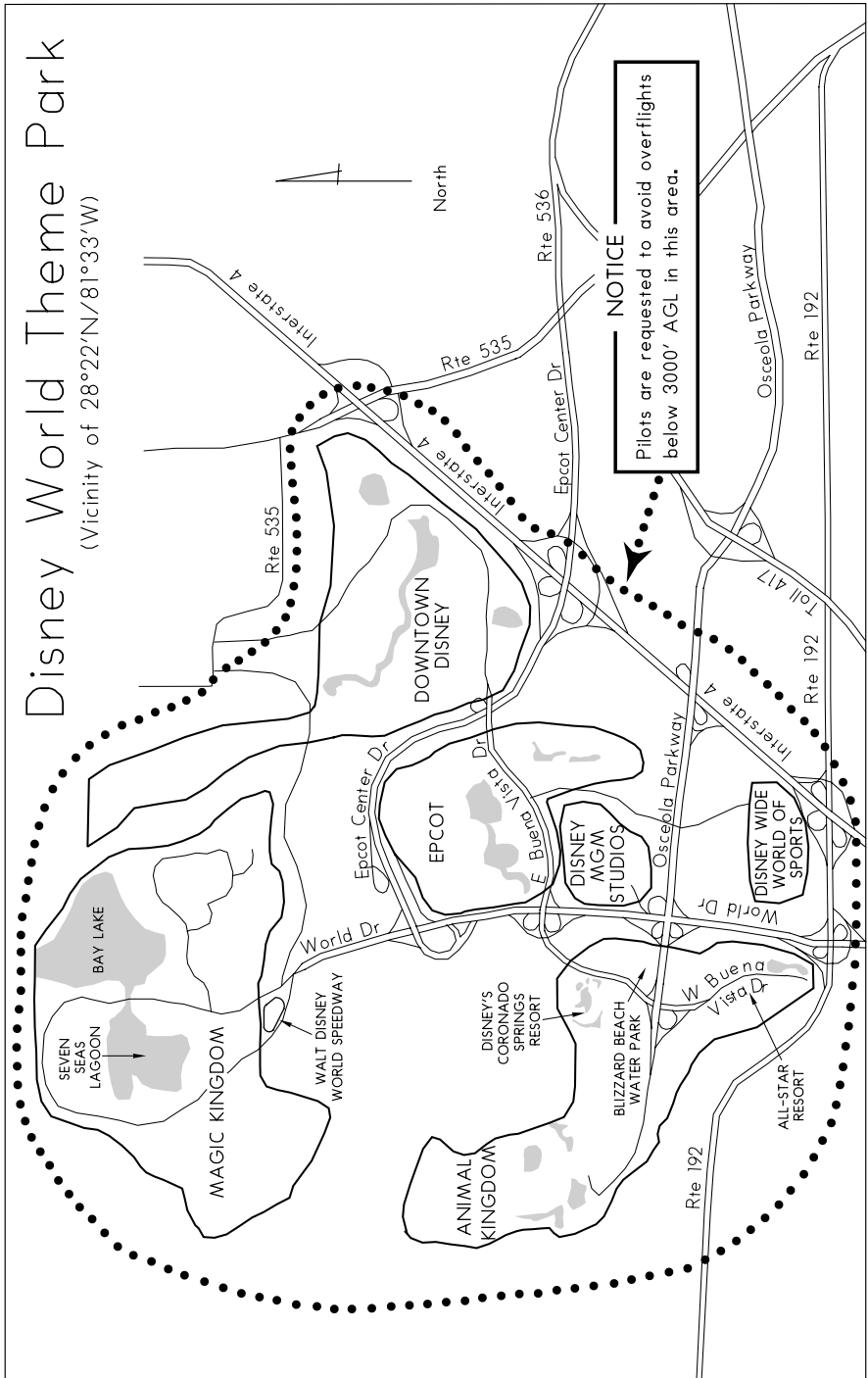
In addition to those facilities comprising the basic ATC system, the following approach and lighting aids have been included in this program for a selected runway.

1. ILS (Localizer, Glide Slope, COMLO, Inner, Middle and Outer Markers)
2. Wind Measuring Capability
3. Approach Light System (ALS) or Short ALS (SALS)
4. Ceiling Measuring Capability
5. Touchdown Zone Lighting (TDZL)
6. Centerline Lighting (CL)
7. Runway Visual Range (RVR)
8. High Intensity Runway Lighting (HIRL)
9. Taxiway Lighting
10. Apron Light (Perimeter Only)

The following have been designated "Continuous Power Airports," and have independent back up capability for the equipment installed.

Airport/Ident	Runway No.	Airport/Ident	Runway No.
Albuquerque, NM (ABQ) .....	08	Milwaukee, WI (MKE) .....	01L
Anchorage, AK (ANC) .....	07R	Minneapolis, MN (MSP) .....	30L
Andrews AFB, MD (ADW) .....	01L	Nashville, TN (BNA) .....	02L
Atlanta, GA (ATL) .....	09R	New Orleans, LA (MSY) .....	10
Baltimore, MD (BWI) .....	10	New York, NY (JFK) .....	04R
Bismarck, ND (BIS) .....	31	New York, NY (LGA) .....	22
Boise, ID (BOI) .....	10R	Newark, NJ (EWR) .....	04R
Boston, MA (BOS) .....	04R	Oklahoma City, OK (OKC) .....	35R
Charlotte, NC (CLT) .....	36L	Omaha, NE (OMA) .....	14R
Chicago, IL (ORD) .....	14R	Ontario, CA (ONT) .....	26L
Cincinnati, OH (CVG) .....	36C	Philadelphia, PA (PHL) .....	09R
Cleveland, OH (CLE) .....	06R	Phoenix, AZ (PHX) .....	08
Dallas/Fort Worth, TX (DFW) .....	17C	Pittsburgh, PA (PIT) .....	10L
Denver, CO (DEN) .....	35R	Reno, NV (RNO) .....	16R
Des Moines, IA (DSM) .....	31	Salt Lake City, UT (SLC) .....	34L
Detroit, MI (DTW) .....	03R	San Antonio, TX (SAT) .....	12R
El Paso, TX (ELP) .....	22	San Diego, CA (SAN) .....	09
Fairbanks, AK (FAI) .....	01L	San Francisco, CA (SFO) .....	28R
Great Falls, MT (GTF) .....	03	San Juan, PR (SJU) .....	08
Honolulu, HI (HNL) .....	08L	Seattle, WA (SEA) .....	16C
Houston, TX (IAH) .....	26L	St. Louis, MO (STL) .....	30R
Indianapolis, IN (IND) .....	05L	Tampa, FL (TPA) .....	36L
Jacksonville, FL (JAX) .....	07	Tulsa, OK (TUL) .....	36R
Kansas City, MO (MCI) .....	19R	Washington, DC (DCA) .....	01
Los Angeles, CA (LAX) .....	24R	Washington, DC (IAD) .....	01R
Memphis, TN (MEM) .....	36L	Wichita, KS (ICT) .....	01L
Miami, FL (MIA) .....	08R		

**NOTE**—The existing CPA runway is listed. Pending and future changes at some locations will require a revised runway designation.

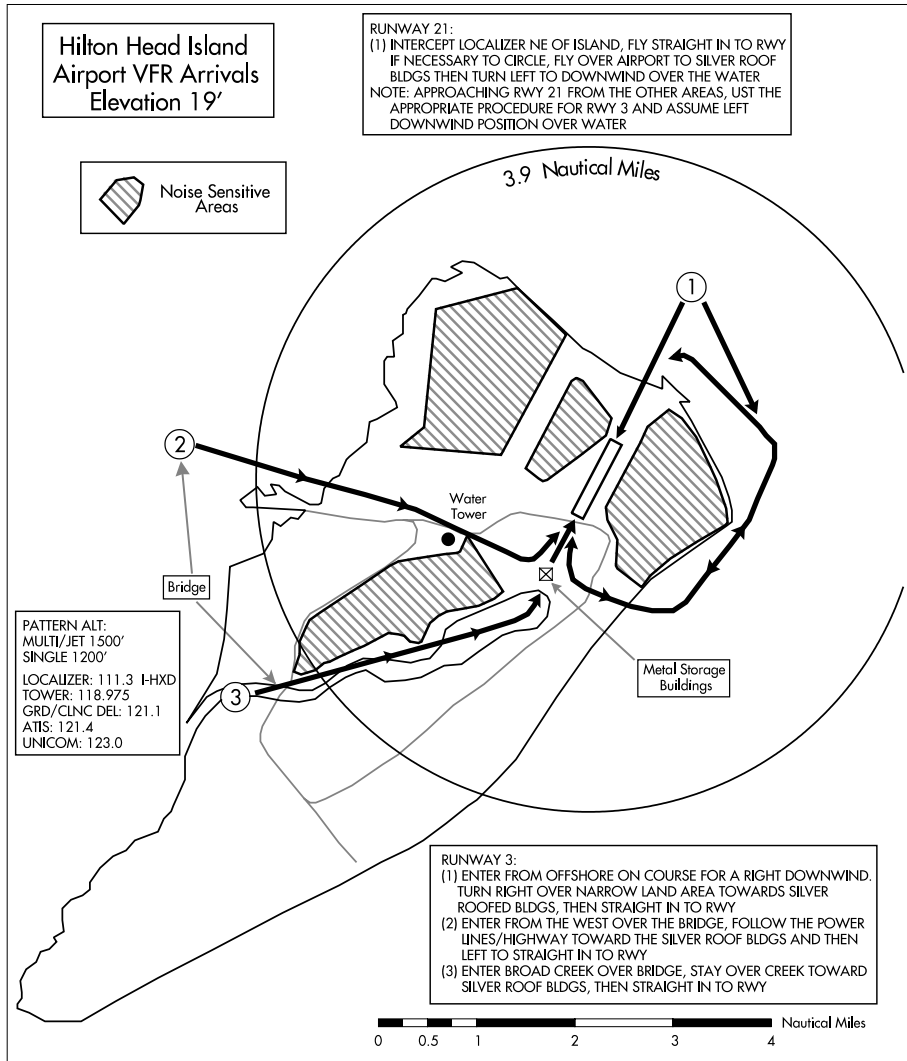


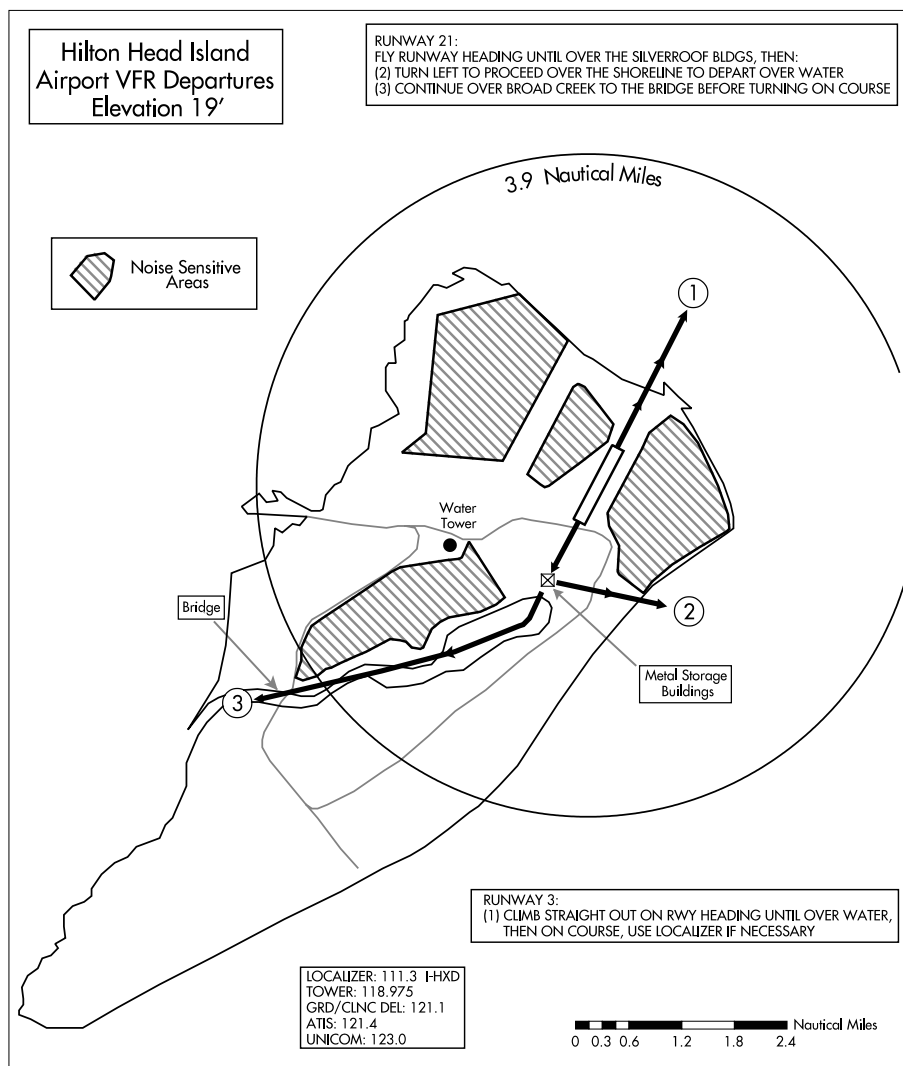
**DISNEY WORLD THEME PARK****NOTICE**

Pursuant to Public Law 108–199, Section 521, aircraft flight operations are prohibited at and below 3,000 feet AGL within a 3 nautical mile radius of the Disney World Theme Park (282445N/081342W or the Orlando (ORL) VORTAC 238 degree radial at 14.8 nautical miles). This restriction does not apply to: (A) those aircraft authorized by ATC for operational or safety purposes, including aircraft arriving or departing from an airport using standard air traffic procedures; (B) Department of Defense, law enforcement, or aeromedical flight operations that are in contact with ATC; Those who meet any of the following criteria may apply for a waiver to these restrictions: (A) for operational purposes of the venue, including the transportation of equipment or officials of the governing body; (b) for safety and security purposes of the venue.

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# BOWMAN FIELD

LOUISVILLE, KY

# TERMINAL AREA GRAPHIC NOTICE

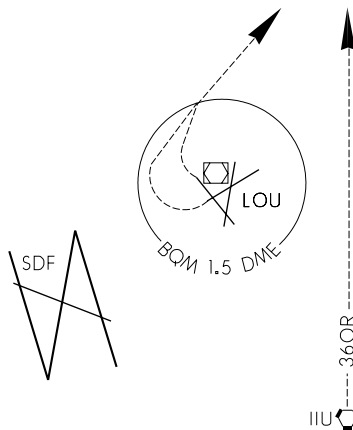
(Not to be used for navigation)

Bowman Airport Runway 24 and Runway 32 VFR Departure Procedure.

"SENECA DEPARTURE"

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.

ATIS 112.2  
LOUISVILLE APP CON  
132.075  
BOWMAN TOWER  
119.5  
GND CON  
121.8  
CLNC DEL  
118.9



Remaining within 1 1/2 miles from Bowman VOR (BQM), turn right heading 045, maintaining VFR at or below 2500 feet. Expect IFR activation and climb upon crossing the 110 360 radial

WEATHER MINIMUMS: Ceiling 3000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 2500 feet constitutes activation of IFR clearance upon leaving 2500 feet.

**HOLLYWOOD/NORTH PERRY (HWO)****HOLLYWOOD, FL**

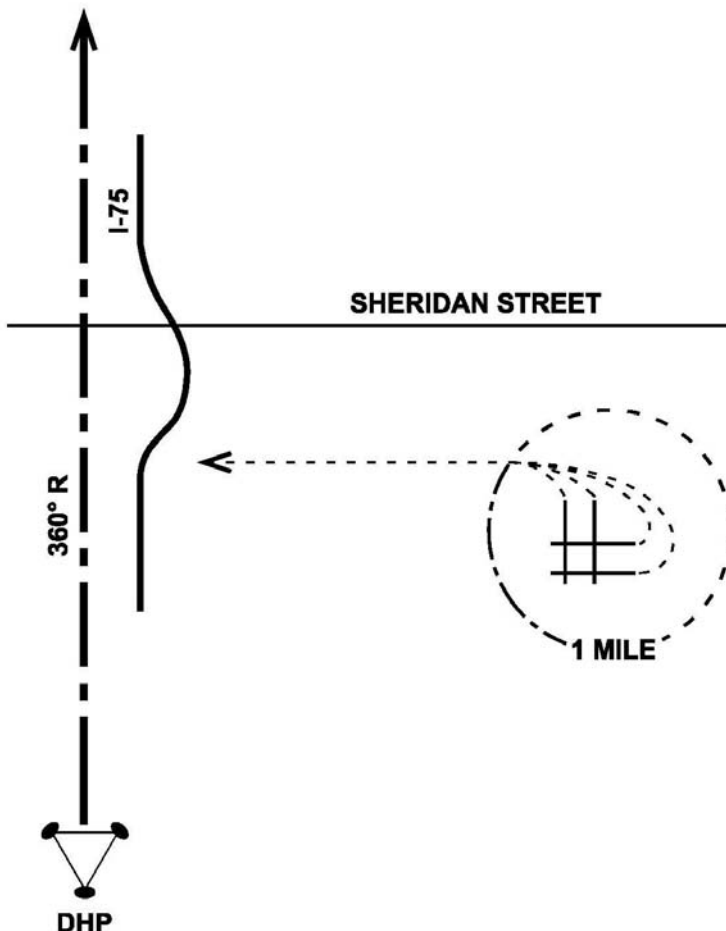
TERMINAL AREA GRAPHIC NOTICE

(Not to be used for navigation)

Hollywood/North Perry Airport Runway 9L, 9R, 36L and 36R VFR Departure Procedure.

**"SHERIDAN DEPARTURE"**

PILOTS SHOULD SPECIFICALLY REQUEST THIS PROCEDURE USING THE ABOVE NAME.



ATIS 135.475

MIAMI APPROACH CONTROL 128.6

NORTH PERRY TOWER 132.1

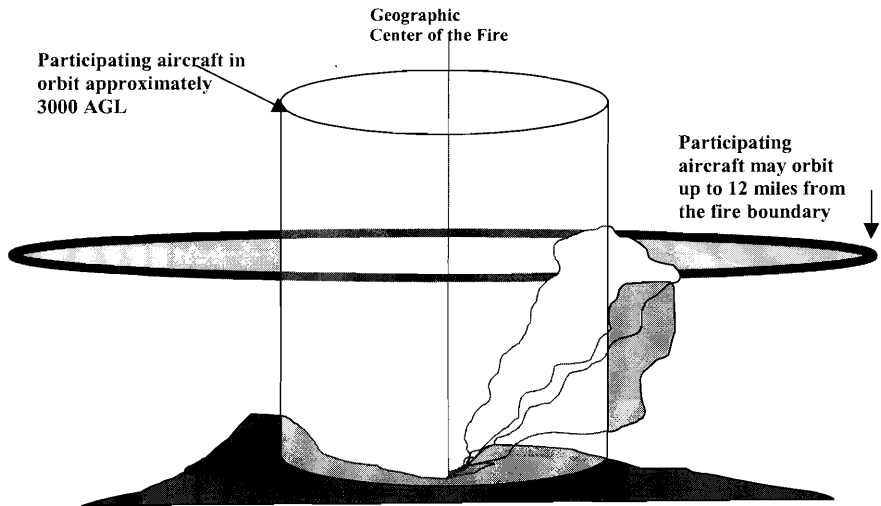
GROUND CONTROL 120.45

Remain within 1 mile from HWO airport, if departing north or east turn left to heading 260. Remain south of Sheridan Street VFR at or below 1500. Expect IFR activation and climb crossing I75 (5 miles west of HWO) or the DHP 360 radial.

WEATHER MINIMUMS: Ceiling 2000 and visibility 3 miles.

NOTE: Receipt of a clearance to climb above 1500 constitutes activation of IFR clearance.

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**FIREFIGHTING TRAFFIC AREAS**

Pilots are advised to stay clear of Firefighting Traffic Areas. Remain 15 miles from the area of activity. If you must over-fly the area, do so at an altitude of 5000 feet AGL above. However, to remain safe and out of the way of working aircraft, it is best to circumnavigate the area.

The wild-land fire environment can be very complex and involve a large number and variety of aircraft types including fixed and rotary wing aircraft. Some of the aircraft are small single and multi-engine command and control platforms that can be especially difficult to see and may give the appearance that the fire is not staffed. The aircraft participating in firefighting can orbit as far out as 12 miles from the perimeter of the fire. Any intrusion by aircraft not directly involved in the firefighting operation could delay the delivery of much needed retardant or water to ground firefighters and will adversely affect the safety of participating aircraft. Please stay well away from wild-land fires even if you feel that aircraft are not working the fire; they may be en route or unseen.

If you see a fire developing along your route, report it immediately to air traffic control who will advise the US Forest Service. The firefighting community would welcome this information.

The following narratives summarize the FAR Part 93 Special Air Traffic Rules, Patterns, and/or Airport Traffic Patterns in effect as prescribed in the rule. This information is advisory in nature and in no way relieves the pilot from compliance with the specific rules set forth in FAR Parts 91 and 93.

Special Airport Traffic Areas prescribed in Part 93 are depicted on Sectional Aeronautical Charts, World Aeronautical Charts, Enroute Low Altitude Charts, and where applicable, on VFR Terminal Area Charts.

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### **DESTIN-FT WALTON BEACH, FLORIDA VALPARAISO TERMINAL AREA**

Part 93, Subpart F, prescribes that Valparaiso, Florida, Terminal Area, and the special air traffic rules for operating aircraft within specific corridor.

– North-South Corridor.

Before operating within the corridor, obtain a clearance from the Eglin Radar Control Facility or an appropriate FAA ATC facility, and maintain two-way radio communication with the Eglin Radar Control Facility while within the corridor.

– East-West Corridor.

Before operating within the corridor, establish two-way radio communications with Eglin Radar Control Facility or an appropriate FAA ATC facility for an ATC advisory concerning operations being conducted therein; and maintain two-way radio communications with the Eglin Radar Control Facility while within the corridor. For Destin/Eglin AFB FL Part 93 Operations details, see FAASafety.gov Knowledge Course at: [http://faasafety.gov/gslac/ALC/course\\_catalog.aspx](http://faasafety.gov/gslac/ALC/course_catalog.aspx).

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### **OPERATIONS RESERVATIONS FOR HIGH DENSITY TRAFFIC AIRPORTS KENNEDY, LAGUARDIA, AND WASHINGTON REAGAN NATIONAL**

The Federal Aviation Administration (FAA) has designated New York's Kennedy and LaGuardia Airports and Washington Reagan National Airport as High Density Traffic Airports (HDTA), Title 14, Code of Federal Regulations, part 93, subpart K, and has prescribed air traffic rules and requirements for operating aircraft (excluding helicopters) to and from those airports during certain hours.

Reservations are required for operations from 6 a.m. through 11:59 p.m. local time at LaGuardia Airport and Washington Reagan National Airport. Reservations at Kennedy Airport are required from 3 p.m. through 7:59 p.m. local time.

Reservation procedures are detailed in Advisory Circular 93-1, Reservations for Unscheduled Operations at High Density Traffic Airports. A copy of the advisory circular is available on the FAA website at <http://www.faa.gov>. Reservations for unscheduled operations are allocated through the Enhanced Computer Voice Reservation System (e-CVRS) accessible via telephone or the Internet. This system may not be used to make reservations for scheduled air carrier or commuter flights.

The toll-free telephone number for accessing e-CVRS is 1-800-875-9694 and is available for calls originating within the United States, Canada, and the Caribbean. Users outside the toll-free areas may access e-CVRS by calling the toll number of 703-707-0568. The Internet web address for accessing the e-CVRS is <http://www.fly.faa.gov/ecvrs>. If you have any questions about reservation requirements or are experiencing problems with the system, you may telephone the Airport Reservation Office at the Air Traffic Control System Command Center at (703) 904-4452.

Requests for instrument flight rules (IFR) reservations will be accepted beginning 72 hours prior to the proposed time of operation at the high-density airport. For example, a request for an 11 a.m. reservation on a Thursday will be accepted beginning at 11 a.m. on the previous Monday.

IFR reservations must be obtained prior to IFR landing or takeoff at an HDTA during slot controlled hours. An air traffic control (ATC) clearance does not constitute a reservation. A reservation does not constitute permission to operate at an HDTA if additional operational limits or procedures are required by NOTAM and/or regulation.

Aircraft involved in medical emergencies will be handled by ATC without regard to a reservation after obtaining prior approval of the ATC System Command Center on (703) 904-4452. ATC will accommodate declared other emergency situations without regard to slot reservations.

**NOTE:** Visual flight rule (VFR) reservations via ATC for unscheduled operations at LaGuardia are not authorized from 7 a.m. through 8:59 a.m. local time and 4 p.m. through 6:59 p.m. local time, Monday through Friday and Sunday evenings, unless otherwise announced by NOTAM. Both IFR and VFR operations during those time periods must obtain an advance reservation through e-CVRS.

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## FSS TELEPHONE NUMBERS

**Flight Service Station (FSS)** facilities provide flight planning and weather briefing services to pilots. FSS services in the contiguous United States, Hawaii and Puerto Rico, are provided by a network of large hub facilities and smaller remote facilities which are interconnected with the hubs.

**Selected remote FSS** facilities across the contiguous United States have variable part-time operating hours. Because of the interconnectivity between remote and hub facilities, all FSS services are available continuously using published telephone numbers and radio frequencies.

### SOUTHEAST U.S.

**FLORIDA:** St. Petersburg, St. Petersburg–Clearwater International (PIE) — **PIE FSS**

**NORTH CAROLINA:** Raleigh, Raleigh–Durham International (RDU) — **RDU FSS**

**TENNESSEE:** Nashville, Nashville International (BNA) — **BNA FSS**

**Telephone Information Briefing Service (TIBS)** is a FSS service that provides continuous recordings of meteorological and/or aeronautical information including area and/or route briefings, airspace procedures and special announcements. A touch-tone telephone is required to fully utilize this service.

Further information can be found in the Aeronautical Information Manual (AIM).

### NATIONAL FSS TELEPHONE NUMBER

Pilot Weather Briefings ..... 1-800-WX-BRIEF (1-800-992-7433)

### OTHER FSS TELEPHONE NUMBERS (except in Alaska)

TIBS (see description above) ..... 1-877-4TIBS-WX (1-877-484-2799)  
 Clearance Delivery Only ..... 1-888-766-8267  
 Lifeguard Flights Only ..... 1-877-LIF-GRD3 (1-877-543-4733)  
 Flights within DC SFRA & FRZ\* ..... 1-866-225-7410

\* District of Columbia Special Flight Rules Area & Flight Restricted Zone

# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

**TAF KPIT 091730Z 091818 15005KT 5SM HZ.FEW020 WS010/31022KT**  
**FM1930 30015G25KT 3SM SHRA OVC015 TEMPO 2022 1/2SM +TSRA**  
**OVC008CB**  
**FM0100 27008KT 5SM SHRA BKN020 OVC040 PROB40 0407 1SM -RA BR**  
**FM1015 18005KT 6SM -SHRA OVC020 BECMG 1315 P6SM NSW SKC**

**METAR KPIT 091955Z COR 22015G25KT 3/4SM R28L/2600FT TSRA OVC010CB**  
**18/16 A2992 RMK SLP045 T01820159**

Forecast	Explanation	Report
<b>TAF</b>	Message type: <u>TAF</u> -routine or <u>TAF AMD</u> -amended forecast, <u>METAR</u> -hourly, <u>SPECI</u> -special or <u>TESTM</u> -non-commissioned ASOS report	<b>METAR</b>
<b>KPIT</b>	ICAO location indicator	<b>KPIT</b>
<b>091730Z</b>	Issuance time: ALL times in UTC " <u>Z</u> ", 2-digit date, 4-digit time	<b>091955Z</b>
<b>091818</b>	Valid period: 2-digit date, 2-digit beginning, 2-digit ending times	
	In U.S. <b>METAR</b> : <u>COR</u> rected ob; or <u>AUTO</u> mated ob for automated report with no human intervention; omitted when observer logs on	<b>COR</b>
<b>15005KT</b>	Wind: 3 digit true-north direction, nearest 10 degrees (or <u>Var</u> ia <u>ble</u> ); next 2-3 digits for speed and unit, <u>KT</u> (KMH or MPS); as needed, <u>Gust</u> and maximum speed; 00000KT for calm; for <b>METAR</b> , if direction varies 60 degrees or more, <u>Variability</u> appended, e.g. 180 <u>V</u> 260	<b>22015G25KT</b>
<b>5SM</b>	Prevailing visibility: in U.S., <u>Statute Miles</u> & fractions; above 6 miles in <b>TAF</b> <u>Plus</u> 6SM. (Or, 4-digit minimum visibility in meters and as required, lowest value with direction)	<b>3/4SM</b>
	Runway Visual Range: <u>R</u> ; 2-digit runway designator <u>Left</u> , <u>Center</u> , or <u>Right</u> as needed; <u>'/'</u> ; <u>Minus</u> or <u>Plus</u> in U.S., 4-digit value, <u>Feet</u> in U.S., (usually meters elsewhere); 4-digit value <u>Variability</u> 4-digit value (and tendency <u>Down</u> , <u>Up</u> or <u>No</u> change)	<b>R28L/2600FT</b>
<b>HZ</b>	Significant present, forecast and recent weather: see table (on back)	<b>TSRA</b>
<b>FEW020</b>	Cloud amount, height and type: <u>SKY</u> Clear 0/8, <u>FEW</u> >0/8-2/8, <u>SCaT</u> tered 3/8-4/8, <u>BroKeN</u> 5/8-7/8, <u>OVerCast</u> 8/8; 3-digit height in hundreds of ft; <u>Towering CU</u> mulus or <u>CumulonimBus</u> in <b>METAR</b> ; in <b>TAF</b> , only <u>CB</u> . <u>Vertical</u> Visibility for obscured sky and height "VV004". More than 1 layer may be reported or forecast. In automated <b>METAR</b> reports only, <u>CleaR</u> for "clear below 12,000 feet"	<b>OVC010CB</b>
	Temperature: degrees Celsius; first 2 digits, temperature <u>'/'</u> last 2 digits, dew-point temperature; <u>Minus</u> for below zero, e.g., M06	<b>18/16</b>
	Altimeter setting: indicator and 4 digits; in U.S., <u>A</u> -inches and hundredths; ( <u>Q</u> -hectoPascals, e.g., Q1013)	<b>A2992</b>



# KEY to AERODROME FORECAST (TAF) and AVIATION ROUTINE WEATHER REPORT (METAR)

Forecast	Explanation	Report
<b>WS010/31022KT</b>	In U.S. <b>TAF</b> , non-convective low-level ( $\leq 2,000$ ft) <u>Wind Shear</u> ; 3-digit height (hundreds of ft); <u>"Z"</u> ; 3-digit wind direction and 2-3 digit wind speed above the indicated height, and unit, <u>KT</u>	<b>RMK</b> <b>SLP045</b> <b>T01820159</b>
<b>FM1930</b>	In <b>METAR</b> , <u>ReMark</u> indicator & remarks. For example: <u>Sea-Level Pressure</u> in hectoPascals & tenths, as shown: 1004.5 hPa; <u>Temp/dew-point</u> in tenths °C, as shown: temp. 18.2°C, dew-point 15.9°C	
<b>TEMPO 2022</b>	<u>From</u> and 2-digit hour and 2-digit minute <b>beginning</b> time: indicates significant change. Each FM starts on new line, indented 5 spaces.	
<b>PROB40 0407</b>	<b>TEMPO</b> rary: changes expected for < 1 hour and in total, < half of 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
<b>BECMG 1315</b>	<b>PROB</b> ability and 2-digit percent (30 or 40): probable condition during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	
	<b>BECOM</b> ing: change expected during 2-digit hour <b>beginning</b> and 2-digit hour <b>ending</b> time period	

Table of Significant Present, Forecast and Recent Weather - Grouped in categories and used in the order listed below; or as needed in TAF, No Significant Weather.

## QUALIFIER

### Intensity or Proximity

- Light "no sign" Moderate + Heavy

VC Vicinity: but not at aerodrome; in U.S. **METAR**, between 5 and 10SM of the point(s) of observation; in U.S. **TAF**, 5 to 10SM from center of runway complex (elsewhere within 8000m)

### Descriptor

MI Shallow	BC Patches	PR Partial	TS Thunderstorm
BL Blowing	SH Showers	DR Drifting	FZ Freezing

## WEATHER PHENOMENA

### Precipitation

DZ Drizzle	RA Rain	SN Snow	SG Snow grains
IC Ice crystals	PL Ice pellets	GR Hail	GS Small hail/snow pellets
UP Unknown precipitation in automated observations			

### Obscuration

BR Mist ( $\geq 5/8$ SM)	FG Fog ( $< 5/8$ SM)	FU Smoke	VA Volcanic ash
SA Sand	HZ Haze	PY Spray	DU Widespread dust

### Other

SQ Squall	SS Sandstorm	DS Duststorm	PO Well developed dust/sand whirls
FC Funnel cloud	+FC tornado/waterspout		

- Explanations in parentheses "( )" indicate different worldwide practices.
- Ceiling is not specified; defined as the lowest broken or overcast layer, or the vertical visibility.
- NWS **TAFs** exclude turbulence, icing & temperature forecasts; NWS **METARs** exclude trend fcsts
- Although not used in US, Ceiling And Visibility OK replaces visibility, weather and clouds if: visibility  $\geq 10$  km; no cloud below 5000 ft (1500 m) or below the highest minimum sector altitude, whichever is greater and no CB; and no precipitation, TS, DS, SS, MIFG, DRDU, DRSA or DRSN.

UNITED STATES DEPARTMENT OF COMMERCE

NOAA/PA 96052

National Oceanic and Atmospheric Administration—National Weather Service

# FAA AND NWS

## KEY AIR TRAFFIC FACILITIES

### Air Traffic Control System Command Center

Main Number.....703-904-4400

#### RGNL AIR TRAFFIC DIVISIONS

REGION	TELEPHONE
Alaskan	907-271-5464
Central	816-329-2500
Eastern	718-553-4502
Great Lakes	847-294-7202
New England	781-238-7500
Northwest Mountain	425-227-2500
Southern	404-305-5500
Southwest	817-222-5500
Western Pacific	310-725-6500

#### AIR ROUTE TRAFFIC CONTROL CENTERS (ARTCCs)

ARTCC NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Albuquerque	817-222-5006	7:30 a.m.-4:00 p.m.	505-856-4300
Anchorage	907-271-5936	7:30 a.m.-4:00 p.m.	907-269-1137
Atlanta	404-305-5180	7:30 a.m.-5:00 p.m.	770-210-7601
Boston	617-238-7001	7:30 a.m.-4:00 p.m.	603-879-6633
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	630-906-8221
Cleveland	847-294-8400	8:00 a.m.-4:00 p.m.	440-774-0310
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-651-4100
Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	817-858-7300
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-5300
Indianapolis	847-294-8400	8:00 a.m.-4:00 p.m.	317-247-2231
Jacksonville	404-305-5180	8:00 a.m.-4:30 p.m.	904-549-1501
Kansas City	816-329-3000	7:30 a.m.-4:00 p.m.	913-254-8500
Los Angeles	661-265-8200	7:30 a.m.-4:00 p.m.	661-265-8200
Memphis	404-305-5180	7:30 a.m.-4:00 p.m.	901-368-8103
Miami	404-305-5180	7:00 a.m.-3:30 p.m.	305-716-1500
Minneapolis	847-294-8400	8:00 a.m.-4:00 p.m.	651-463-5580
New York	718-995-5426	8:00 a.m.-4:40 p.m.	516-468-1001
Oakland	310-725-3300	6:30 a.m.-3:00 p.m.	510-745-3331
Salt Lake City	425-227-1389	7:30 a.m.-4:00 p.m.	801-320-2500
Seattle	425-227-1389	7:30 a.m.-4:00 p.m.	253-351-3500
Washington	718-995-5426	8:00 a.m.-4:30 p.m.	703-771-3401

#### MAJOR TERMINAL RADAR APPROACH CONTROLS (TRACONS)

TRACON NAME	*24 HR RGNL DUTY OFFICE TELEPHONE #	BUSINESS HOURS	BUSINESS TELEPHONE #
Atlanta	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Chicago	847-294-8400	8:00 a.m.-4:00 p.m.	847-608-5509
Dallas/Ft. Worth	817-222-5006	7:30 a.m.-4:00 p.m.	972-615-2500
Denver	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1500
Houston	817-222-5006	7:30 a.m.-4:00 p.m.	281-230-8400
New York	718-995-5426	8:00 a.m.-4:30 p.m.	516-683-2901
Northern CA	310-725-3300	7:00 a.m.-3:30 p.m.	916-366-4001
Southern CA	310-725-3300	7:30 a.m.-4:00 p.m.	858-537-5800

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

# **KEY AIR TRAFFIC FACILITIES** **DAILY NAS REPORTABLE AIRPORTS**

<b>AIRPORT NAME</b>	<b>*24 HR RGNL DUTY OFFICE TELEPHONE #</b>	<b>BUSINESS HOURS</b>	<b>BUSINESS TELEPHONE #</b>
Albuquerque Intl Sunport, NM	817-222-5006	8:00 a.m.-5:00 p.m.	505-842-4366
Andrews AFB, MD	718-995-5426	8:00 a.m.-4:30 p.m.	301-735-2380
Baltimore/Washington Intl Thurgood Marshall, MD	718-995-5426	8:00 a.m.-4:30 p.m.	410-962-3555
Boston Logan Intl, MA	781-238-7001	7:30 a.m.-4:00 p.m.	617-455-3100
Bradley Intl, CT	617-238-7001	7:30 a.m.-4:00 p.m.	203-627-3428
Burbank/Bob Hope, CA	310-725-3300	7:00 a.m.-5:30 p.m.	818-567-4806
Charlotte Douglas Intl, NC	404-305-5180	8:00 a.m.-4:30 p.m.	704-344-6487
Chicago Midway, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-884-3670
Chicago O'Hare Intl, IL	847-294-8400	8:00 a.m.-4:00 p.m.	773-601-7600
Cleveland Hopkins Intl, OH	847-294-8400	8:00 a.m.-4:00 p.m.	216-898-2020
Covington/Cincinnati, OH	708-294-7401	8:00 a.m.-4:30 p.m.	606-767-1006
Dallas/Ft. Worth Intl, TX	817-222-5006	8:30 a.m.-5:00 p.m.	972-615-2531
Dayton Cox Intl, OH	847-294-8400	7:30 a.m.-4:00 p.m.	937-454-7300
Denver Intl, CO	425-227-1389	7:30 a.m.-4:00 p.m.	303-342-1600
Detroit Metro, MI	847-294-8400	8:00 a.m.-4:00 p.m.	734-955-5000
Fairbanks Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-474-0050
Fort Lauderdale Intl, FL	404-305-5180	7:00 a.m.-3:30 p.m.	305-356-7932
George Bush Intercontinental/Houston, TX	817-222-5006	7:30 a.m.-4:00 p.m.	713-230-8400
Hartsfield-Jackson Atlanta Intl, GA	404-305-5180	7:00 a.m.-3:30 p.m.	404-669-1200
Honolulu Intl, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-840-6100
Houston Hobby, TX	817-222-5006	8:00 a.m.-5:00 p.m.	713-847-1400
Indianapolis Intl, IN	847-294-8400	8:00 a.m.-4:00 p.m.	317-484-6600
Kahului/Maui, HI	310-643-3200	7:30 a.m.-4:00 p.m.	808-877-0725
Kansas City Intl, MO	816-329-3000	7:30 a.m.-4:00 p.m.	816-329-2700
Las Vegas McCarran, NV	310-725-3300	7:30 a.m.-4:00 p.m.	702-262-5978
Los Angeles Intl, CA	310-725-3300	7:00 a.m.-3:30 p.m.	310-342-4900
Louis Armstrong New Orleans Intl, LA	817-222-5006	7:00 a.m.-4:30 p.m.	504-471-4300
Memphis Intl, TN	404-305-5180	7:30 a.m.-4:00 p.m.	901-322-3350
Miami Intl, FL	404-305-5180	7:00 a.m.-4:00 p.m.	305-869-5400
Minneapolis/St. Paul, MN	847-294-8400	8:00 a.m.-4:00p.m.	612-713-4000
Nashville Intl, TN	404-305-5180	7:00 a.m.-3:30 p.m.	615-781-5460
New York Kennedy Intl, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-656-0335
New York La Guardia, NY	718-995-5426	8:00 a.m.-4:30 p.m.	718-335-5461
Newark Liberty Intl, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	973-645-3103
Norman Y. Mineta San Jose Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	408-982-0750
Ontario Intl, CA	310-643-3200	7:30 a.m.-4:00 p.m.	909-983-7518
Orlando Intl, FL	404-305-5180	7:30 a.m.-5:00 p.m.	407-850-7000
Philadelphia Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	215-492-4100
Phoenix Sky Harbor Intl, AZ	310-643-3200	7:30 a.m.-4:00 p.m.	602-379-4226
Pittsburgh Intl, PA	718-995-5426	8:00 a.m.-4:30 p.m.	412-269-9237
Portland Intl, OR	425-227-1389	7:30 a.m.-4:00 p.m.	503-493-7500
Raleigh-Durham, NC	404-305-5180	8:00 a.m.-4:30 p.m.	919-840-5544
Ronald Reagan Washington National, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-413-1535
Salt Lake City, UT	425-227-1389	7:30 a.m.-4:00 p.m.	801-325-9600
San Antonio Intl, TX	817-222-5006	8:00 a.m.-4:30 p.m.	210-805-5507
San Diego Lindbergh Intl, CA	310-725-3300	8:00 a.m.-4:30 p.m.	619-299-0677
San Francisco Intl, CA	310-643-3200	7:00 a.m.-3:30 p.m.	650-876-2883
San Juan Intl, PR	404-305-5180	7:30 a.m.-5:00 p.m.	809-253-8663
Seattle-Tacoma Intl, WA	425-227-1389	7:30 a.m.-4:00 p.m.	206-768-2900
St. Louis Lambert, MO	816-329-3000	7:30 a.m.-4:00 p.m.	314-890-1000
Tampa Intl, FL	404-305-5180	7:30 a.m.-4:00 p.m.	813-371-7700
Ted Stevens Anchorage Intl, AK	907-271-5936	7:30 a.m.-4:00 p.m.	907-271-2700
Teterboro, NJ	718-995-5426	8:00 a.m.-4:30 p.m.	201-288-1889
Washington Dulles Intl, DC	718-995-5426	8:00 a.m.-4:30 p.m.	703-661-6031
West Palm Beach, FL	404-305-5180	8:00 a.m.-4:30 p.m.	407-683-1867
Westchester Co, NY	718-995-5426	8:00 a.m.-4:30 p.m.	914-948-6520

\*Facilities can be contacted through the Rgnl Duty Officer during non-business hours.

Air Route Traffic Control Center frequencies and their remoted transmitter sites are listed below for the coverage of this volume. Bold face type indicates high altitude frequencies, light face type indicates low altitude frequencies. To insure unrestricted IFR operations within the high altitude enroute sectors, the use of 720 channel communications equipment (25 kHz channel spacing) is required.

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**® ATLANTA CENTER**
**H-6-9-10-12, L-18-22-24-25-26-36, A-1**  
**(KZTL)**

Albemarle - 133.15  
 Anniston - 134.95  
 Athens - **127.5** 127.5 124.45 **120.425**  
 Atlanta A - 135.0  
 Augusta - 128.1  
 Birmingham - 134.05 **128.725**  
 Black Jack Mountain - 127.05  
 Chattanooga - **133.175** 132.05 **126.675** **124.875**  
 Columbus - **125.575** 120.45  
 Crossville - 133.6 **132.675** **125.925**  
 Foothills - **124.375**  
 Gadsden - 133.8  
 Glade Springs - 127.85  
 Greensboro - 128.8 **124.425**  
 Hampton - 128.0 **127.125** **126.475** **124.325**  
 Hickory - 134.55 **132.975** 125.15  
 Huntsville - **126.825**  
 Jonesville - **125.025** 119.575  
 Macon - 134.5 **126.425** 123.95 **119.575**  
 Millen - 135.55  
 Monroeville - 118.55  
 Montgomery - **134.6** **128.025** **125.875** 120.55  
 Mount Oglethorpe - 134.8 133.1 121.35  
 Newport - **134.075** 127.55  
 Owing - 135.35 **125.625** **123.725**  
 Statham - **132.475** 132.475  
 Sugarloaf Mountain - 132.625  
 Tri City - **126.775** **120.725**  
 Uniontown - 133.25 132.25

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**® HOUSTON CENTER - 134.35**
**H-6-7-8-9, L-17-18-19-20-21-22**  
**(KZHU)**

Arr-Dep US - 135.77 134.95 **133.75** 133.4 **132.65** 132.4 128.3 **127.8** 125.75 120.35  
 Mobile - 127.65 **125.775**

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**® INDIANAPOLIS CENTER - 133.425 132.775 128.375 125.55**
**H-5-9-10-12, L-16-25-26-27-29**  
**(KZID)**

124.525 119.55  
 Evansville - **132.525** 128.3  
 Livingston - **134.675** **126.925**  
 London 2 - 126.57 124.625 121.325  
 Lynch - 126.575  
 New Hope - 124.625 121.175  
 Portsmouth - 124.225 **120.275**  
 Tri City - **124.575**  
 Winchester - **128.22** 126.375 **123.775**

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**® JACKSONVILLE CENTER**
**H-6-7-8-9-12, L-18-21-22-24-25-35-36, A-1**  
**(KZJX)**

Arr-Dep US-South Atlantic Control N of 31°30' — 135.05 S of 31°30'N 134.85  
 Albany - 134.45 125.75  
 Alma - **135.975** **133.3** 132.3  
 Charleston - **135.05** **133.625** **132.475** 127.95 **124.075**  
 Columbia - **127.875** 124.7  
 Crestview - 134.15 **124.475** 120.2  
 Daytona Beach - 134.0  
 Dothan - 134.3  
 Eglin - 132.1  
 Florence - 134.35 133.45  
 Gainesville - **135.65** 134.4 124.75  
 Glynnco - 126.75  
 Jacksonville - **134.85** 126.35  
 Lake City - 125.375  
 Lowell - 135.75 133.325 **125.175**  
 Millen - 132.5  
 Myrtle Beach - **135.05** 128.7

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Panama City – 119.1  
 Perry Foley – 127.8  
 St. Augustine – 134.575 132.825 127.475 126.35  
 Savannah – 132.425 126.125 120.85  
 Tallahassee – 135.325 128.625 128.075 125.05  
 Valdosta – 133.7 125.95

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**® MEMPHIS CENTER — 127.975 124.025**
**H-5-6-9, L-15-16-17-18-22-25-26**  
**(KZME)**

Columbus – 134.775 133.125 127.1  
 Graham – 125.85 124.275  
 Huntsville – 120.8  
 McKellar – 134.65 127.975 126.45 124.35  
 Memphis – 135.225 118.625  
 Nashville – 133.85 124.125 118.875  
 Nashville/Joelton 132.1  
 Paducah – 133.65  
 Shelbyville – 126.75  
 South Fulton – 128.05  
 Tupelo – 135.9 135.9 134.4

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**® MIAMI CENTER**
**H-8, L-21-22-23-24, A-1**  
**(KZMA)**

Avon Park – 134.55 127.2 126.525  
 Fort Myers – 134.75 133.275  
 Grand Bahama Island – 134.2  
 Grand Turk – 135.2 132.3  
 Key West – 133.5 132.2 132.2 124.7 124.7  
 Melbourne – 135.075 128.65 124.1 119.825  
 Miami – 132.95 133.85 133.2 133.95 132.4 127.7 126.325 124.7 124.7  
 Nassau – 134.8 125.7  
 Pahokee – 133.55 132.45  
 Sarasota – 133.9 132.35 128.225  
 Vero Beach – 135.7 132.25 125.075  
 West Palm Beach – 135.175 133.4 132.15

**CENTER REMARKS:** All northbound IFR flights entering Miami in vicinity of Grand Turk and Great Inagua must contact Miami Center on 132.3/307.2 at least 10 minutes prior to the Miami Center boundary for an air traffic clearance. Alternate communications are avbl thru ARINC or Miami Radio. This is due to heavy air traffic congestion in this area.

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**® SAN JUAN CENTER**
**H-2-3, L-5-6**  
**(ZSU) (MJJS)**

Borinquen – 135.7 135.7 124.35  
 El Yunque – 134.3 134.3 128.65 128.6 125.0 125.0 118.75 118.75 118.15 118.15  
 Pico Del Este – 134.3 134.3 128.65 128.65 125.0 125.0 118.15 118.15

**CENTER REMARKS:** All acft on an IFR flight plan in the San Juan CTA and within 200 NM of San Juan are requested to ctc San Juan Center on the following frequencies: Amber 300 clockwise thru Amber 523—134.3; East of Amber 523 clockwise to North of Blue 520—125.0; Blue 520 clockwise thru Amber 636—118.15; Red 763 clockwise thru Green 431—135.7. San Juan Cerap provides IFR clearances for St Croix Christiansted on freq 121.7 when St Croix twr closed. San Juan Cerap provides IFR clearances for St Thomas Charlotte Amalie-Harry S Truman on freq 121.9 when twr closed. San Juan Cerap provides IFR clearances for Ponce-Mercedita on freq 121.9. San Juan Cerap provides IFR clearances for Mayaguez-Eugenio Maria De Hostos on freq 121.7.

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**® WASHINGTON CENTER**
**H-9-10-12, L-24-25-26-29-34-35-36**  
**(KZDC)**

Arr-Dep US – 135.5 133.82 133.12 132.55 128.52 127.7 127.42 124.02 123.85 118.82  
 Green Bay – 133.725 127.75  
 Johnsonville – 135.2 118.925  
 Manteo – 124.725  
 New Bern – 135.5 118.825  
 Rocky Mount – 118.475 132.225  
 Sampson – 135.3  
 Whaleyville – 133.825 128.525 127.425 123.85  
 Wilmington – 124.025

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VHF frequencies available at Flight Service Stations and at their remote communication outlets (RCO's) are listed below for the coverage of this volume. Frequencies in bold type are available all altitudes but recommended for use FL180 and above. "T" indicates transmit only and "R" indicates receive only. RCO's available at NAVAIDS are listed after the NAVAID name. RCO's not at NAVAID's are listed by name.

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### ANDERSON AFSS

AIKEN RCO 122.45  
 ALLENDALE VOR 116.7T 122.1R  
 ANDERSON RCO 122.2 123.6  
 CHARLESTON VORTAC 113.5T 122.1R 122.2 122.5  
 CHESTERFIELD VOR/DME 108.2T 122.05R  
 COLLIERS VORTAC 113.9T 122.1R  
 COLUMBIA VORTAC 114.7T 122.1R 122.65  
 FLORENCE VORTAC 115.2T 122.1R 122.6  
 FOOTHILLS VORTAC 113.4T 122.1R  
 FORT MILL VORTAC 112.4T 122.1R  
 GRAND STRAND VORTAC 117.6T 122.1R 123.6  
 GREENWOOD VORTAC 115.5T 122.1R 122.625  
 GREER RCO 122.2 122.65  
 HILTON HEAD ISLAND RCO 122.55  
 SPARTANBURG VORTAC 115.7T 122.1R  
 VANCE VORTAC 110.4T 122.1R

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### ANNISTON AFSS

ANNISTON RCO 122.2 123.6  
 BIRMINGHAM RCO 122.2 123.65  
 BROOKLEY VORTAC 112.8T 122.1R  
 CRIMSON VORTAC 117.8T 122.1R  
 DECATUR RCO 122.6  
 DOTHAN RCO 122.2 122.5  
 EUFAULA VORTAC 109.2T 122.1R  
 GADSDEN VOR/DME 112.3T 122.1R  
 HAMILTON RCO 122.3  
 HUNTSVILLE RCO 122.2  
 MOBILE RCO 122.2 123.65  
 MONROEVILLE VORTAC 116.8T 122.1R  
 MONTGOMERY VORTAC 112.1T 122.1R 122.2 122.55  
 MUSCLE SHOALS RCO 122.2 122.4  
 SELMA RCO 122.4  
 TALLADEGA VOR/DME 108.8T 122.05R  
 TUSCALOOSA RCO 122.2  
 TUSKEGEE VOR/DME 117.3T 122.1R  
 VULCAN VORTAC 114.4T 122.1R  
 WIREGRASS VORTAC 111.6T 122.1R

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### GAINESVILLE AFSS 122.1R 122.2 122.5 123.65

CRAIG VORTAC 114.5T 122.1R 122.2 122.45  
 CRESTVIEW RCO 122.0 122.2 122.45  
 CROSS CITY VORTAC 112.0T 122.1R  
 GATORS VORTAC 116.2T 122.1R  
 GREENVILLE VORTAC 109.0T 122.1R  
 LAKE CITY RCO 122.6  
 MARIANNA VORTAC 114.0T 122.1R  
 OCALA VORTAC 113.7T 122.1R  
 PALATKA RCO 122.25  
 PANAMA CITY VORTAC 114.3T 122.1R  
 PENSACOLA RCO 122.2 122.6  
 PERRY RCO 122.45  
 ST AUGUSTINE RCO 122.3  
 SAUFLEY VOR 108.8T 122.1R  
 SEMINOLE VORTAC 117.5T 122.1R 122.2 122.4  
 TAYLOR VORTAC 112.9T 122.1R

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**JACKSON AFSS**

CLARKSVILLE VOR/DME 110.6T 122.1R  
DYERSBURG RCO 122.2 122.45  
GRAHAM VORTAC 111.6T 122.1R 122.25  
JACKS CREEK VOR/DME 109.4T 122.1R  
JACKSON RCO 122.2 **122.65** 127.15  
MEMPHIS VORTAC 117.5T 122.1R 122.2 123.65

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**LOUISVILLE AFSS**

BOWLING GREEN RCO 122.2 122.4  
CENTRAL CITY VORTAC 109.8T 122.1R  
CINCINNATI VORTAC 117.3T 122.1R  
FALMOUTH VOR/DME 117.0T 122.1R  
FRANKFORT VOR 109.4T 122.1R  
HAZARD VOR/DME 111.2T 122.1R  
LEXINGTON VORTAC 112.6T 122.1R  
LONDON VORTAC 116.1T 122.1R 122.2 122.65  
LOUISVILLE RCO 122.1R 122.2 **122.45**  
MADISON RCO 122.3  
NEW HOPE VOR/DME 110.8T 122.1R  
NEWCOMBE VORTAC 110.4T 122.1R  
OWENSBORO VOR/DME 108.6T 122.1R  
PADUCAH RCO 122.2 122.5  
PIKEVILLE RCO 122.05  
SOMERSET RCO 122.55  
YORK VORTAC 112.8T 122.1R

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**MACON AFSS**

ALBANY RCO 122.6  
 ALMA VORTAC 115.1T 122.1R 123.6  
 ATHENS VORTAC 109.6T 122.1R  
 ATLANTA VORTAC 116.9T 122.1R 122.2 122.6  
 BRUNSWICK VORTAC 109.8T 122.1R 122.2  
 CHOO CHOO VORTAC 115.8T 122.1R  
 COLUMBUS VORTAC 117.1T 122.1R 122.65  
 DANIEL RCO 122.3  
 DUBLIN VORTAC 113.1T 122.1R 122.6  
 GAINESVILLE RCO 122.55  
 HARRIS RCO 122.35  
 LAGRANGE VORTAC 115.6T 122.1R  
 MACON RCO 122.0 122.1R 122.2 122.4  
 MOULTRIE VOR/DME 108.8T 122.1R  
 PEACHTREE VOR/DME 116.6T 122.1R  
 ROME RCO 122.3  
 SAVANNAH VORTAC 115.95T 122.1R 123.65  
 STATESBORO RCO 122.6  
 THOMASVILLE RCO 122.55  
 TIFT MYERS RCO 122.35  
 VALDOSTA VOR/DME 114.8T 122.1R 122.2  
 VIENNA VORTAC 116.5T 122.1R  
 WAYCROSS VORTAC 110.2T 122.1R

**MIAMI AFSS** 122.2 122.3 **122.55** 123.65

**MIAMI IFSS** 127.9 126.9 126.7

DADE COLLIER RCO 122.3  
 DAVIE RCO 126.7  
 DOLPHIN VORTAC 113.9T 122.1R  
 FORT MYERS RCO 122.1R 122.2 **122.65**  
 FORT PIERCE RCO 122.55  
 KEY WEST VORTAC 113.5T 122.1R 122.2 **123.65**  
 LA BELLE VORTAC 110.4T 122.1R  
 MARATHON RCO 122.6  
 NAPLES RCO 123.6  
 PAHOKEE VORTAC 115.4T 122.1R 122.35  
 PALM BEACH VORTAC 115.7T 122.1R 122.4  
 VIRGINIA KEY VOR/DME 117.1T 122.1R



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**NASHVILLE AFSS**

BRISTOL RCO 122.2  
CHATTANOOGA RCO 122.2 123.65  
CROSSVILLE RCO 122.2 122.5  
HINCH MOUNTAIN VORTAC 117.6T 122.1R  
HOLSTON MOUNTAIN VORTAC 114.6T 122.1R  
LIVINGSTON VORTAC 108.4T 122.1R  
MCGHEE TYSON RCO 122.2 122.3  
NASHVILLE RCO 122.1R 122.2 122.55  
SHELBYVILLE VOR/DME 109.0T 122.1R  
VOLUNTEER VORTAC 116.4T 122.1R

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**RALEIGH AFSS**

BARRETTS MOUNTAIN VOR/DME 110.8T 122.1R  
CHARLOTTE RCO 122.4  
COFIELD VORTAC 114.6T 122.1R  
ELIZABETH CITY VOR/DME 112.5T 122.05R 122.2  
FAYETTEVILLE VOR/DME 108.8T 122.1R  
GREENSBORO VORTAC 116.2T 122.1R 122.2 123.65  
HATTERAS RCO 122.3  
HICKORY RCO 122.2 122.6  
KINSTON VORTAC 109.6T 122.15R  
LIBERTY VORTAC 113.0T 122.1R  
NEW BERN VOR/DME 113.6T 122.1R 122.2 122.4  
PITT-GREENVILLE RCO 122.35  
RALEIGH RCO 122.2 122.45 122.65  
ROCKY MOUNT RCO 122.2 122.3  
SANDHILLS VORTAC 111.8T 122.1R  
SNOWBIRD VORTAC 108.8T 122.1R  
SUGARLOAF MOUNTAIN VORTAC 112.2T 122.1R 122.2 122.3  
TAR RIVER VORTAC 117.8T 122.1R  
WILKESBORO RCO 122.4  
WILMINGTON VORTAC 117.0T 122.1R 122.55

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**SAINT PETERSBURG AFSS**

BROOKSVILLE RCO 122.3  
FORT DRUM RCO 122.2  
LAKELAND VORTAC 116.0T 122.1R  
MELBOURNE VOR/DME 110.0T 122.1R 122.6  
ORLANDO VORTAC 112.2T 122.1R 122.2 **122.65** 123.65  
ORMOND BEACH VORTAC 112.6T 122.1R 122.4  
PUNTA GORDA RCO 122.025  
ST PETERSBURG VORTAC 116.4T 122.1R 122.2 122.45 123.6  
SARASOTA VORTAC 115.2T 122.1R  
SEBRING RCO 122.25  
TITUSVILLE RCO 123.6  
VERO BEACH VORTAC 117.3T 122.1R 122.2 122.5

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**SAN JUAN AIFSS**

BORINQUEN VORTAC 113.5T 122.1R  
MAYAGUEZ VOR/DME 110.6T 122.1R  
PONCE VOR/DME 109.0T 122.1R  
ST CROIX VOR/DME 108.2T 122.1R  
ST THOMAS VOR/DME 108.6T 123.6R  
SAN JUAN RCO 126.7 123.65 122.2

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**FLIGHT STANDARDS DISTRICT OFFICES (FSDO)**

Below is a list of FSDO's in the area of coverage of this directory. These offices serve the aviation industry and the general public on matters relating to certification and operation of general aviation aircraft. Address letters to Manager, Flight Standards District Office—Federal Aviation Administration.

**ALABAMA**

Liberty Park Building 1500, Suite 250  
1500 Urban Center Drive  
Vestavia Hills, AL 35242  
Telephone: 205-731-1557

**FLORIDA**

Ft. Lauderdale Jet Center  
1050 Lee Wagener Blvd.  
Ft. Lauderdale, FL 33315  
Telephone: 954-635-1300

5950 Hazeltine  
National Drive Suite 500  
Orlando, FL 32822-5023  
Telephone: 407-812-7700  
Fax: 407-812-7710

8600 NW 36th Street  
Miami, FL 33166  
Telephone: 305-716-3400

5601 Mariner St, Suite 310  
Tampa, FL 33609  
Telephone: 813-287-4900  
Fax: 813-639-1551

**GEORGIA**

Campus Building  
1701 Columbia Ave. Suite 2-110  
College Park, GA 30337-2748  
Telephone: 404-305-7200  
Fax: 404-305-7215

**KENTUCKY**

1930 Bishop Lane  
Waterson Towers, 11th Floor  
Louisville, KY 40218  
Telephone: 502-753-4200

**NORTH CAROLINA**

6433 Bryan Blvd.  
Greensboro, NC 27409  
Telephone: 336-662-1000

3800 Arco Corporate Drive, Suite 233  
Charlotte, NC 28273  
Telephone: 704-319-7020

**PUERTO RICO**

525 F.D. Roosevelt Ave.  
La Torre de Plaza, Suite 901  
San Juan, PR 00918  
Telephone: 787-764-2538

**SOUTH CAROLINA**

125-B Summer Lake Drive  
West Columbia, SC 29170  
Telephone: 803-765-5931

**TENNESSEE**

2 International Plaza Drive, Suite 700  
Nashville, TN 37217  
Telephone: 615-324-1300

2842 Business Park Drive, Bldg G  
Memphis, TN 38118  
Telephone: 901-322-8600

# PREFERRED IFR ROUTES

A system of preferred routes has been established to guide pilots in planning their route of flight, to minimize route changes during the operational phase of flight, and to aid in the efficient orderly management of the air traffic using federal airways. The preferred IFR routes which follow are designed to serve the needs of airspace users and to provide for a systematic flow of air traffic in the major terminal and en route flight environments. Cooperation by all pilots in filing preferred routes will result in fewer traffic delays and will better provide for efficient departure, en route and arrival air traffic service.

The following lists contain preferred IFR routes for the low altitude stratum and the high altitude stratum. The high altitude list is in two sections; the first section showing terminal to terminal routes and the second section showing single direction route segments. Also, on some high altitude routes low altitude airways are included as transition routes.

The following will explain the terms/abbreviations used in the listing:

1. Preferred routes beginning/ending with an airway number indicate that the airway essentially overlies the airport and flight are normally cleared directly on the airway.
2. Preferred IFR routes beginning/ending with a fix indicate that aircraft may be routed to/from these fixes via a Standard Instrument Departure (SID) route, radar vectors (RV), or a Standard Terminal Arrival Route (STAR).
3. Preferred IFR routes for major terminals selected are listed alphabetically under the name of the departure airport. Where several airports are in proximity they are listed under the principal airport and categorized as a metropolitan area; e.g., New York Metro Area.
4. Preferred IFR routes used in one direction only for selected segments, irrespective of point of departure or destination, are listed numerically showing the segment fixes and the direction and times effective.
5. Where more than one route is listed the routes have equal priority for use.
6. Official location identifiers are used in the route description for VOR/VORTAC nav aids.
7. Intersection names are spelled out.
8. Navaid radial and distance fixes (e.g., ARD201113) have been used in the route description in an expediency and intersection names will be assigned as soon as routine processing can be accomplished. Navaid radial (no distance stated) may be used to describe a route to intercept a specified airway (e.g., MIV MIV101 V39); another navaid radial (e.g., UIM UIM255 GSW081); or an intersection (e.g., GSW081 FITCH).
9. Where two nav aids, an intersection and a nav aid, a nav aid and a navaid radial and distance point, or any navigable combination of these route descriptions follow in succession, the route is direct.
10. The effective times for the routes are in UTC. During periods of daylight saving time effective times will be one hour earlier than indicated. All states observe daylight saving time except Arizona, Puerto Rico and the Virgin Islands. Pilots planning flight between the terminals or route segments listed should file for the appropriate preferred IFR route.
11. (90–170 incl) altitude flight level assignment in hundred of feet.
12. The notations "pressurized" and "unpressurized" for certain low altitude preferred routes to Kennedy Airport indicate the preferred route based on aircraft performance.
13. High Altitude Preferred IFR Routes are in effect during the following time periods unless otherwise noted.  
Sun..... 1300–2259 local time.  
Mon thru Fri ..... 0701–2259 local time.  
Sat ..... 0701–1459 local time.
14. Use current SIDs and STARs for flight planning.
15. For high altitude routes, the portion of the routes contained in brackets is suggested but optional. The portion of the route outside the brackets will likely be required by the facilities involved.

## LOW ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA METRO AREA</b>		
Chicago Midway (MDW) .....	(60–170 incl) V97 NELLO V311 HCH V51 CGT .....	1200–0300
Chicago O'Hare (ORD).....	(60–170 incl) V97 NELLO V311 HCH V51 CGT V7 BEBEE .....	1200–0300
Cincinnati (CVG).....	(80–170 incl) V97 VVX V115 AZQ V339 FLM .....	1200–0300
<b>CINCINNATI METRO AREA (CVG, LUK)</b>		
Detroit/Wayne (DTW) .....	DQN MIZAR–STAR .....	1100–0300
Detroit Satellites:		
Ann Arbor (ARB) .....	DQN CRUX–STAR .....	1100–0300
Pontiac (PTK), Willow Run (YIP) .....	DQN CRUX–STAR .....	
Windsor (CYQG), Young (DET).....	V275 KLINE VVW VVW064 LYNTN.....	

Terminals	Route	Effective Times (UTC)
From COVINGTON (CVG) only		
Atlanta (ATL) .....	V97 VVW V267 HRS V463 WOMAC .....	1100-0300
Chicago Midway (MDW) .....	V128 VHP BVT V97 CGT .....	1100-0300
Chicago O'Hare (ORD) .....	V128 VHP BVT V97 CGT V7 BEBEE .....	1100-0300
Indianapolis (IND) .....	V128 VHP .....	1100-0300
Knoxville (TYS) .....	HYK V97 .....	
Louisville (SDF) .....	CVG206 IIU055 IIU .....	1100-0300
Pittsburgh (PIT) .....	(60-170 incl) V128 YRK V44 JPU V117 WISKE WISKE-STAR .....	1100-0300
<b>DAYTONA BEACH</b>		
Miami (MIA) .....	(110 and below) V3 MLB V437 PHK V267 BRIKL ..	1300-0300
<b>FT LAUDERDALE METRO AREA (FLL, FXE, PMP)</b>		
Cross City (CTY) .....	(at or below 50) DHP V97 LBV V157 LAL V7 ..... or (60-170) V511 LAL V7 .....	1030-0300 1030-0300
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or (110-170) V159 TBIRD MLB V3 .....	1030-0300
Ft. Myers (FMY)(RSW) .....	(at or below 50) DHP V521 .....	1030-0300
Ft. Pierce (FPR) .....	(at or below 100) V3 .....	1030-0300
	or (110-170) V159 TBIRD .....	1030-0300
Gainesville (GNV) .....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or (60-170) V511 LAL V157 .....	1030-0300
Jacksonville (JAX) .....	(at or below 90) PBI V3 OMN V51 CRG .....	1030-0300
	or (130-170) ORL V267 CRG .....	1030-0300
	or V159 VRB V3 OMN V51 CRG .....	
Lakeland (LAL) .....	(at or below 50) DHP V97 LBV110 V157 .....	1030-0300
	or (60-170) V511 .....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3 .....	1030-0300
	or (110-170) FLL V159 TBIRD .....	1030-0300
Ocala (OCF) .....	(at or below 50) DHP V97 LBV V157 .....	1030-0300
	or (60-170) V511 LAL V157 .....	1030-0300
Orlando (MCO) .....	(at or below 100) PBI V531 ORL .....	1030-0300
	or (110-170) V159 TBIRD V531 ORL .....	1030-0300
Sarasota/Bradenton (SRQ) .....	(60-170) Lbv V97 ROGAN .....	1030-0300
	or (60-170) SRQ .....	1030-3000
	or (at or below 50) DHP V97 ROGAN .....	1030-0300
	or (60-170) ROGAN .....	1030-0300
Tallahassee (TLH) .....	(at or below 50) DHP V97 LBV V157 LAL V7 SZW ..	1030-0300
	or (60-170) V511 LAL V7 SZW .....	1030-0300
Tampa (TPA) .....	(60-170) Lbv BRDGE-STAR .....	1030-0300
	or (60-170) BRDGE BRDGE-STAR .....	1030-0300
	or (at or below 50) DHP V97 PIE .....	1030-0300
	or (60-170, GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1030-0300
	or (60-170, GPS or DME/DME-IRU equipped) Lbv DEAKK (RNAV)-STAR .....	1030-0300
Vero Beach (VRB) .....	(at or below 100) V3 .....	1030-0300

Terminals	Route	Effective Times (UTC)
	or (110–170) V159 TBIRD .....	1030–0300
<b>FORT MYERS METRO AREA (RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL .....	1030–0300
Ft. Lauderdale (FLL) .....	(RSW/FMY/PGD–prop/turbo) RSW V599 .....	1030–0300
	or (RSW/FMY/PGD–turbo/jets) FORTL JINGL (RNAV)–STAR .....	1030–0300
	or (APF/MKY prop/turbo) DRCT .....	1030–0300
	or FORTL JINGL (RNAV)– STAR .....	1030–0300
Ft. Pierce (FPR) .....	V225 .....	1030–0300
Gainesville (GNV) .....	V7 LAL V157 .....	1030–0300
Jacksonville (JAX) .....	ORL V267 CRG .....	1030–0300
Lakeland (LAL) .....	V7 LAL .....	1030–0300
Melbourne (MLB) .....	V225 VRB .....	1030–0300
Miami (MIA) .....	V35 CURVE .....	1030–0300
	or (all others) CYY CYY–STAR .....	1030–0300
	or (Turbojets–GPS or DME/DME–IRU equipped) CYY SSCOT (RNAV)–STAR .....	
Orlando (MCO) .....	(Jets) LAL ORL .....	1030–0300
	or (Turbo/Props) ORL .....	1030–0300
	or (Jets) LAL MINEE–STAR .....	1030–0300
	or (Jets) DOWNN MINEE–STAR .....	1030–0300
	or (Turbo/Props) DOWNN MINEE–STAR .....	1030–0300
Ocala (OCF) .....	V7 LAL V157 .....	1030–0300
Tallahassee (TLH) .....	V7 SZW .....	1030–0300
Tampa (TPA) .....	(at or below 100) V35 PIE .....	1030–0300
	or (110–170) RSW BRDGE–STAR .....	1030–0300
	or (GPS or DME/DME–IRU equipped) DEAKK (RNAV)–STAR .....	1030–0300
Vero Beach (VRB) .....	V225 .....	1030–0300
<b>GAINESVILLE (GNV)</b>		
Ft. Lauderdale (FLL) .....	(100 and below) V157 NEWER .....	0000–2359
Ft. Myers (FMY) .....	(100 and below) V157 LAL V521 .....	0000–2359
Miami (MIA) .....	(100 and below) V157 LBV V529 V35 CURVE .....	0000–2359
Orlando (ORL) .....	(100 and below) V157 OCF V159 .....	1100–0400
Sarasota/Bradenton (SRQ) .....	(100 and below) V157 LAL .....	0000–2359
Tampa (TPA) .....	(100 and below) V157 OCF V581 DADES .....	0000–2359
<b>JACKSONVILLE METRO AREA (JAX)</b>		
Miami (MIA) .....	(100 and below) V3 MLB V437 PHK V267 BRIKL .....	1300–0300
Tampa (TPA) .....	(100 and below) OCF V581 DADES .....	0000–2359
	or (100 and below, GPS or DME/DME–IRU equipped) OCF V581 DADES (RNAV)–STAR .....	0000–2359
<b>KEY WEST METRO AREA (NQX)</b>		
Daytona Beach (DAB) .....	RSW ORL .....	1030–0300
Ft Myers (RSW) .....	EYW V539 GOODY .....	1030–0300
Fort Lauderdale (FLL) .....	(props) EYW V157 DHP .....	
	or (jets–all others) EYW DVALL–STAR .....	1030–0300
	or (jets–/E./G./R./J./L./Q) EYW CORSO (RNAV)–STAR .....	1030–0300

Terminals	Route	Effective Times (UTC)
Melbourne (MLB) .....	EYW PHK.....	1030-0300
Miami (MIA) .....	(props) EYW V157 .....	
	or	
	(Jets-all others) EYW DVALL-STAR.....	1030-0300
	or	
	(Jets-/E,/G,/R,/J,/L,/Q) EYW CURSO	
	(RNAV)-STAR.....	1030-0300
Orlando (MCO) .....	(props) EYW V225 RSW MINEE-STAR .....	
	or	
	(Jets) EYW V225 RSW LAL MINEE-STAR.....	1030-0300
Palm Beach (PBI) .....	EYW PHK.....	1030-0300
Sarasota/Bradenton (SRQ).....	(at or below 100) EYW V225 RSW V35 MURDO ....	1030-0300
	or	
	(110-170) EYW V225 RSW V7 ROGAN.....	
Tallahassee (TLH) .....	EYW V225 RSW V7 SZW .....	1030-0300
Tampa (TPA) .....	(at or below 100) EYW V225 RSW V35 PIE .....	
	or	
	(110-170) EYW V225 RSW V7 ROGAN	
	BRDGE-STAR.....	1030-0300
	or	
	(110-170, GPS or DME/DME-IRU equipped) EYW V225	
	RSW V7 ROGAN DEAKK (RNAV)-STAR .....	1030-0300
Vero Beach (VRB) .....	EYW PHK V51 .....	1030-0300
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>		
Ft Lauderdale (FLL) .....	(Jets only-all others) V7 RSW FORTL-STAR .....	1030-0300
Ft. Myers (FMY).....	V521 .....	1030-0300
Ft Pierce (FPR) .....	(at or below 140) V441 DEARY V159 .....	1030-0300
	or	
	(150-170) VRB.....	1030-0300
Key West (EYW) .....	V7 RSW V225.....	1030-0300
Miami (MIA).....	(100 and below) V157 LBV V529 V35 CURVE .....	
	or	
	(all others) CYY CYY-STAR .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Opa Locka (OPF) .....	(props/turbo) V511 NEWER .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR .....	
Vero Beach (VRB).....	(at or below 140) V441 DEARY V159 .....	1030-0300
	or	
	(150-170) VRB.....	1030-0300
West Palm Beach (PBI) .....	PHK.....	1030-0300
<b>LEXINGTON (LEX)</b>		
Atlanta (ATL) .....	HYK V53 AZQ SOT WHINZ-STAR.....	
<b>LOUISVILLE</b>		
Kansas City (MCK) .....	V4 PXV V190 SGF TYGER-STAR .....	0000-2359
Wichita (ICT) .....	V4 PXV V190 SGF V132 CNU V350 .....	0000-2359
<b>MEMPHIS</b>		
Chicago Midway (MDW) .....	SPI MOTIF-STAR .....	0000-2359
Chicago O'Hare (ORD).....	MAW V313 PNT V227 PLANO.....	1100-0300
	or	
	PNT V227 PLANO .....	0000-2359
<b>MIAMI METRO AREA (MIA, HWO, OPF, TMB, HST, X51)</b>		
Cross City (CTY).....	V97 LBV V157 LAL V7 .....	1030-0300
	or	
	LAL .....	1030-0300

Terminals	Route	Effective Times (UTC)
Daytona Beach (DAB) .....	(at or below 100) PBI V3 SMYRA .....	1030-0300
	or	
	(110-170) V437 MLB V3 .....	1030-0300
Ft Pierce (FPR) .....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51 VRB .....	1030-0300
	or	
	FPR .....	
Gainesville (GNV) .....	V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Jacksonville (JAX) .....	(at or below 90) PBI V3 OMN V51 CRG .....	1030-0300
	or	
	(at 110) PHK V437 MLB V3 OMN V51 CRG .....	1030-0300
	or	
	(130-170) V267 CRG .....	1030-0300
Lakeland (LAL) .....	V97 LBV V157 LAL .....	1030-0300
	or	
	LAL .....	1030-0300
Melbourne (MLB) .....	(at or below 100) V3 .....	1030-0300
	or	
	(120-170) PBI V531 TBIRD .....	1030-0300
New Orleans (MSY) .....	(below FL180) LBV SRQ AM .....	1100-0300
Ocala (OCF) .....	DHP V97 LBV V157 .....	1030-0300
	or	
	LAL .....	1030-0300
Orlando (MCO) .....	(at or below 100) PBI V531 ORL .....	
	or	
	(110-170) V267 PHK GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	PERMT ILM or PERMT DIW .....	
Sarasota/Bradenton (SRQ) .....	V97 ROGAN .....	1030-0300
Tallahassee (TLH) .....	DHP V97 LBV V157 LAL V7 SZW .....	1030-0300
Tampa (TPA) .....	V97 LBV BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) V97 LBV	
	DEAKK .....	1030-0300
Vero Beach (VRB) .....	(at or below 100) PBI V3 .....	1030-0300
	or	
	(110-170) V267 PHK V51 .....	1030-0300
	or	
	(110-170) VRB .....	1030-0300
<b>NASHVILLE</b>		
Tallahassee (TLH) .....	RQZ TDG TGE RRS .....	1100-2300
<b>ORLANDO METRO AREA (MCO, ORL, ISM, LEE, SFB)</b>		
Ft Lauderdale (FLL) .....	(at or below 100) PHK V267 BRIKL .....	1030-0300
	or	
	(110-170) PHK V267 BRIKL .....	1030-0300
Ft Pierce (FPR) .....	V159 VRB .....	1030-0300
Key West (EYW) .....	RSW V225 .....	1030-0300
Miami (MIA) .....	(at or below 100) PHK V267 BRIKL .....	1030-0300
West Palm Beach (PBI) .....	(props/turbo props) V159 VRB V295 ST00P	
	V492 .....	1030-0300
	or	
	(Jets only) PHK .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	DEARY VRB FRWAY (RNAV)-STAR .....	
<b>PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)</b>		
Cross City (CTY) .....	(at or below 140) V531 BAIRN OCF V159 .....	
	or	
	(150-170) LAL V7 .....	1030-0300

Terminals	Route	Effective Times (UTC)
Daytona Beach (DAB) .....	V3 SMYRA .....	1030-0300
	or	
	V531 TBIRD MLB V3 SMYRA .....	1030-0300
Ft. Myers (RSW) .....	RSW .....	1030-0300
Jacksonville (JAX) .....	(at or below 110) V3 VRB V51 CRG .....	
	or	
	(130-170) ORL V267 CRG .....	1030-0300
Lakeland (LAL) .....	LBV V157 .....	1030-0300
	or	
	(SUA Dep) LAL .....	
Melbourne (MLB) .....	(at or below 100) V3 .....	
	or	
	(120-170) PBI V531 TBIRD .....	1030-0300
Ocala (OCF) .....	(at or below 140) V531 BAIRN OCF .....	
	or	
	(150-170) LAL OCF .....	
Orlando (ORL/MCO) .....	V531 BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	A699 STIFF AR7 .....	
Sarasota/Bradenton (SRQ) .....	LBV V97 ROGAN .....	
	or	
	(SUA Dep) SRQ .....	
Tallahassee (TLH) .....	(at or below 140) V531 BAIRN OCF V159 CTY V7 SZW .....	
	or	
	(150-170) LAL V7 SZW .....	1030-0300
Tampa (TPA) .....	LBV BRDGE-STAR .....	
	or	
	BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LBV DEAKK (RNAV)-STAR .....	1000-0300
Vero Beach (VRB) .....	(at or below 100) PBI V3 .....	
	or	
	(110-170) V531 TBIRD .....	1030-0300
From STUART (SUA) only:		
Cross City (CTY) .....	(at or below 120) BAIRN OCF V159 .....	
	or	
	(130-170) LAL V7 .....	1030-0300
Lakeland (LAL) .....	TBIRD V531 ODDEL V441 LAL .....	1030-0300
Ocala (OCF) .....	TBIRD V531 BAIRN .....	1030-0300
Tallahassee (TLH) .....	(at or below 120) BAIRN OCF V159 CTY V7 SZW ..	
	or	
	(130-170) LAL V7 SZW .....	1030-0300
<b>SARASOTA/BRADENTON AREA (SRQ)</b>		
Ft Lauderdale (FLL) .....	(at or below 100, below 210 kts) RSW V599 NEWER .....	
	or	
	(110-170), below 210 kts) LBV V157 NEWER .....	
	or	
	(at or above 210 kts) V579 RSW V7 KUBIC .....	
	or	
	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(/E, /G, /R, /J, /L, /Q) RSW SWAGS (RNAV)-STAR .....	
Ft Myers (RSW) .....	V579 RSW .....	1030-0300
Orlando (MCO) .....	LAL MINEE-STAR .....	1030-0300
West Palm Beach (PBI) .....	SABEE JOOOE WLACE (RNAV)-STAR .....	
<b>TALLAHASSEE AND CROSS CITY AREA</b>		
Ft Myers (FMY) .....	(120 and below) CTY V7 LAL V521 .....	1100-0300
Miami (MIA) .....	(170 and below) LAL V157 LBV V529 V35 CURVE .....	1300-0300



# PREFERRED IFR ROUTES

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Terminals	Route	Effective Times (UTC)
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Ft Lauderdale (FLL) .....	(Jets only) RSW V7 KUBIC FLL.....	
	or	
	(all others) RSW FORTL-STAR .....	
	or	
	(Turboprop-all others) RSW FORTL-STAR .....	1030-0300
	or	
	(props only) V509 HALLR V511 NEWER.....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) SABEE RXXAN	
	JINGL (RNAV)-STAR .....	
Ft Myers (RSW) .....	PIE V579 RSW .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) SRQ	
	TYNEE (RNAV)-STAR .....	
Ft Pierce (FPR) .....	(at or below 140) V441 DEARY V159 .....	
	or	
	(150-170) VRB.....	1030-0300
Key West (EYW) .....	PIE V35 RSW V225.....	
	or	
	V579 RSW V225 .....	1030-0300
Miami (MIA).....	RSW V35 CURVE .....	1030-0300
	or	
	(all others) CYY CYY-STAR .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) CYY	
	SSCOT (RNAV)-STAR .....	
Opa Locka (OPF) .....	(props) V509 HALLR V511 NEWER .....	
	or	
	(turbo) RSW V7 KUBIC .....	
	or	
	(turbo) V509 HALLR V511 NEWER .....	1030-0300
	or	
	(jets) RSW CYY CYY-STAR.....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW	
	CYY SSCOT (RNAV)-STAR.....	
Orlando (MCO).....	LAL MINEE-STAR (Max alt. 12,000 ft).....	1030-0300
Vero Beach (VRB).....	(at or below 140) V441 DEARY V159 .....	
	or	
	(150-170) VRB.....	1030-0300
West Palm Beach (PBI) .....	RSW PHK .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped)	
	SABEE JOOOE WLACE (RNAV)-STAR .....	

## PREFERRED IFR ROUTES

### SPECIAL LOW ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA (JETS AND TURBOPROPS)

**NORTHEAST**

Traffic entering ZTL airspace V97 and East to V66 file:

.....	VXV AWSON-STAR.....
.....	SOT ODF AWSON-STAR.....
.....	SUG ODF AWSON-STAR.....
.....	SPA ODF AWSON-STAR.....
.....	ELW ODF AWSON-STAR.....

**SOUTHEAST**

Traffic entering ZTL airspace South of V66 to East of a line from ATL to MGR file:

.....	IRQ TRBOW-STAR.....
.....	DBN TRBOW-STAR.....
.....	MCN TRBOW-STAR.....

**SOUTHWEST**

Traffic entering ZTL airspace South of V278 to West of a line from ATL to MGR file:

.....	LDK V66 LGC MIKEE-STAR.....
.....	MEI V56 MGM LGC MIKEE-STAR.....
.....	MVC MGM LGC MIKEE-STAR.....
.....	CEW MGM LGC MIKEE-STAR.....
.....	SZW PZD CSG LGC MIKEE-STAR.....

**NORTHWEST**

Traffic entering ZTL airspace on V278 and North to West of V97 file:

.....	IGB V278 VUZ V417 MAYES V325 DALAS.....
.....	HAB V159 VUZ V417 MAYES V325 DALAS.....
.....	MSL V325 DALAS.....
.....	DCU V541 GAD V325 DALAS.....
.....	RQZ BUNNI-STAR.....
.....	BNA V5 GQO BUNNI-STAR.....
.....	SYI V67 GQO BUNNI-STAR.....
.....	BWG V243 GQO BUNNI-STAR.....
.....	LVT V51 HCH V333 GQO BUNNI-STAR.....
.....	HYK V333 GQO BUNNI-STAR.....

### SPECIAL LOW ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Low Altitude IFR routes for traffic overflying the Charlotte Metro Area:		
.....	PSK V37 CAE (90 and 100 only).....	1100-0300
.....	SPA V54 LOCAS (90 and 100 only).....	1100-0300
.....	GRD V66 SDZ (30-100 only).....	1100-0300
Low Altitude IFR single-direction routes for traffic overflying Atlanta Metro Area:		
Southbound.....	RMG V154 MCN (70 MSL).....	1100-0300
Northbound.....	MCN LOGEN NELLO (70 MSL, RNAV).....	1100-0300

### HIGH ALTITUDE

Terminals	Route	Effective Times (UTC)
<b>ATLANTA (ATL)</b>		
Austin (AUS).....	WEONE J239 MEI AEX LFK.....	1100-0300
Baltimore (BWI).....	EAONE SPA J14 RIC OTT-STAR.....	1100-0300
Boca Raton (BCT).....	(GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK PRRIE (RNAV)-STAR.....	1100-0300
Boston (BOS).....	EATWO GRD J209 RDU J207 FKN J79 JFK ORW-STAR.....	1100-0300
Chicago Midway (MDW).....	(/E/G/R/S/L/Q only) NOONE J89 IIU OKK FISSK (RNAV)-STAR..... or (Non-Advanced RNAV only) NOONE J89 IIU OKK V285 CLEFT OXI CGT.....	1100-0300

Terminals	Route	Effective Times (UTC)
Chicago O'Hare (ORD).....	(non-Advanced RNAV only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
	or	
	(/E/G/R/J/L/Q only) CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or	
Cincinnati (CVG).....	J89 IIU MZZ OXI .....	1100-0300
Charlotte (CLT) .....	NOTWO J43 VXV HARDU-STAR .....	1100-0300
Cleveland (CLE) .....	GRD ADENA (RNAV-STAR) .....	1100-0300
	SUMMT (RNAV)-DP VXV J91 BULEY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	NOTWO J43 VXV J91 HNN BREMN-STAR .....	1100-0300
Denver (DEN) .....	WETWO VUZ J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	1100-0300
Detroit/Wayne (DTW) .....	SUMMT (RNAV)-DP VXV J91 HNN WEEDA-STAR ...	
Fort Lauderdale (FLL) .....	SOONE J89 HITTR PIE FORTL-STAR .....	1100-0300
	or	
Fort Myers (FMY and RSW) .....	(GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK JINGL (RNAV)-STAR .....	1100-0300
	(Turbojets-GPS or DME/DME-IRU equipped) THRSR (RNAV)-DP LUCKK SZW TYNEE (RNAV)-STAR .....	1100-0300
Gainesville (GNV) .....	SOONE J89 OTK.....	1100-0300
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) JAMMR AEX ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) JAMMR MEI AEX DAS-STAR.....	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) JAMMR AEX TXMEX (RNAV)-STAR .....	
Kennedy (JFK).....	EATWO GRD J209 ORF J121 SIE CAMRN-STAR ....	1100-0300
La Guardia (LGA) .....	EAONE AHN J208 HPW J191 PXT KORRY-STAR....	1100-0300
Louisville (SDF) .....	NOONE HCH DARBY-STAR.....	1100-0300
Marco Island (MKY) .....	SOTWO J43 SZW PIKKR (RNAV)-STAR.....	
	or	
Miami (MIA) .....	SOONE J89 J75 TEPEE ZEILR-STAR.....	1100-0300
	(all others) SOTWO SZW J43 PIE CYY-STAR.....	
	or	
	(Turbojets-GPS or DME/DME equipped) THRSR (RNAV)-DP LUCKK SZW SSCOT (RNAV)-STAR .....	1100-0300
Minneapolis (MSP) .....	NOONE J89 IIU J89 BAE EAU-STAR .....	1100-0300
Naples (APF) .....	SOTWO J43 SZW PIKKR (RNAV)-STAR.....	
Newark (EWR) .....	GSO J14 J51 FAK DYLIN-STAR.....	1100-0200
	or	
	(GPS or DME/DME-IRU equipped) GSO J14 J51 FAK PHLBO (RNAV)-STAR .....	1100-0200
Orlando (MCO) .....	SOONE J89 OTK LEESE-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Orlando (ORL).....	(GPS or DME/DME-IRU equipped) SOONE J89 OTK PIGLT (RNAV)-STAR .....	1100-0400
Philadelphia (PHL).....	EAONE SPA J14 J51 FAK DPNT-STAR .....	1100-0300
Raleigh-Durham (RDU).....	EATWO IRQ CAE BUZZY-STAR .....	1100-0300
Sarasota/Bradenton (SRQ).....	J43 SZW CLAMP-STAR .....	1100-0300
Tampa (TPA) .....	SOTWO J43 SZW DARBS-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) SOTWO J43 SZW FOXXX (RNAV)-STAR .....	1100-0300
Teterboro (TEB).....	(Advanced Nav Only) EAONE SPA J14 J51 FAK JAIKE-STAR.....	1100-0300
	or	
	(Non-Advanced Nav Only) EAONE SPA J14 J51 FAK BRV AML J227 J49 J70 LVZ LVZ-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Washington Natl (DCA).....	(GPS or DME/DME-IRU equipped) EAONE SPA J14 RIC OJAAY (RNAV)-STAR .....	1100-0300
	or	
West Palm Beach (PBI) .....	EAONE SPA J14 RIC IRONS-STAR.....	
	(Turbojets-GPS or DME/DME-IRU equipped) BRAVS (RNAV)-DP WALET OTK WLACE (RNAV)-STAR.....	1100-0300
Windsor Locks (BDL) .....	EATWO GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR.....	1100-0300
<b>AUGUSTA (AGS)</b>		
Kennedy (JFK).....	GRD J209 ORF J121 SIE CAMRN-STAR .....	
<b>BIRMINGHAM (BHM)</b>		
Baltimore (BWI).....	ATL J14 RIC OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) ATL J14 RIC RAVNN (RNAV)-STAR .....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) VUZ IIU OKK FISSK (RNAV)-STAR .....	1100-0300
	or	
	(non-advanced RNAV only) VUZ IIU OKK V285 CLEFT OXI CGT.....	1100-0300
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR.....	0000-2359
Detroit/Wayne (DTW).....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR ....	
	or	
	BNA CCT VHP FWA MIZAR-STAR.....	
Houston (HOU).....	(DME/DME-IRU or GPS-equipped) MEI AEX ROKIT (RNAV)-STAR .....	
	(Non-advanced NAV only) MEI AEX DAS-STAR	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) MEI AEX TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) MEI AEX DAS-STAR	
Washington Dulles (IAD).....	ATL J14 J51 FAK COATT-STAR .....	
Washington Natl (DCA).....	ATL J14 RIC IRONS-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) ATL J014 RIC OJAAY (RNAV)-STAR .....	
<b>CHARLESTON (CHS)</b>		
Baltimore (BWI).....	J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Detroit/Wayne (DTW).....	BKW GEMNI-STAR.....	
Houston (HOU).....	(GPS or DME/DME-IRU equipped) MGM J37 SJI COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR.....	
Houston (IAH) .....	(DME/DME-IRU or GPS-equipped) MGM J37 SJI WOLDE (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) MGM J37 SJI AEX DAS-STAR .....	
Philadelphia (PHL).....	J121 SWL SWL034 RADDs VCN-STAR.....	1100-0400
Washington Dulles (IAD).....	J55 FLO J207 RDU FAK COATT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J55 FLO J207 RDU FAK BARIN-STAR .....	
<b>CHARLOTTE (CLT)</b>		
Baltimore (BWI).....	MERIL RDU J52 RIC OTT-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) MERIL RDU J52 RIC RAVNN (RNAV)-STAR .....	1100-0300
Boston (BOS).....	MERIL RDU J207 FKN J79 JFK ORW-STAR.....	
Chicago Midway (MDW) .....	SADIE HNN FWA GOSHEN-STAR.....	1100-0300

Terminals	Route	Effective Times (UTC)
	or	
Chicago O'Hare (ORD).....	SADIE HVQ APE J178 FWA GOSHEN-STAR.....	1100-0300
	(/E/G/R/J/L/Q only) SADIE FLM HEVAN MZZ	
	ROYKO (RNAV)-STAR.....	1100-0300
	or	
	(non-advanced RNAV only) SADIE FLM HEVAN	
Cincinnati (CVG).....	MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
	(RNAV only) HMV JAKIE (RNAV)-STAR.....	
	or	
Denver (DEN).....	(all others) HMV HARDU-STAR.....	
	HARAY SPA SPA270 VXV125 VXV BNA FAM J112	
	BUM J110 GCK J154 RYLIE DANDD-STAR.....	1100-0300
Detroit/Wayne (DTW).....	HUGO-DP ROBAY BKW GEMNI-STAR.....	
Houston (HOU).....	(DME/DME-IRU or GPS-equipped) AHN MGM J37	
	SJI WOLDE (RNAV)-STAR.....	
	or	
	(DME/DME-IRU or GPS-equipped) AHN ATL J14	
	VUZ AEX ROKIT (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX	
	DAS-STAR	
	or	
	(DME/DME-IRU or GPS equipped) AHN MGM J37	
Houston (IAH).....	SJI Columbia (RNAV)-STAR	
	(Turbojets-DME/DME-IRU or GPS-equipped) AHN	
	ATL J14 VUZ AEX TXMEX (RNAV)-STAR.....	
	or	
	(Non-advanced NAV only) AHN ATL J14 VUZ AEX	
	DAS-STAR	
Kennedy (JFK).....	MERIL RDU J209 ORF J121 SIE CAMRN-STAR.....	
La Guardia (LGA).....	MERIL RDU J55 HPW J191 PXT KORRY-STAR.....	1100-0300
Louisville (LOU).....	SADIE LOZ V310 IIU.....	1100-0300
Newark (EWR).....	RDU FAK DYLIN-STAR.....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) RDU FAK	
	PHLBO (RNAV)-STAR	1100-0300
Norfolk (ORF).....	MERIL RDU TYI CVI V1 DRONE.....	1100-0300
Philadelphia (PHL).....	MERIL RDU248 J51 FAK DPNT-STAR.....	1100-0400
Richmond (RIC).....	MERIL RDU LVL.....	
Teterboro (TEB).....	(Advanced Nav Only) MERIL RDU FAK JAIKE-STAR	1100-0300
	or	
	(Non-Advanced Nav Only) MERIL RDU FAK BRV	
	AML J227 J49 J70 LVZ LVZ-STAR.....	1100-0300
Washington Dulles (IAD).....	MERIL RDU248 J51 FAK COATT-STAR.....	1100-0300
Washington Natl (DCA).....	MERIL RDU J52 RIC IRONS-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) MERIL RDU	
	J52 OJAAY (RNAV)-STAR.....	
Windsor Locks (BDL).....	MERIL RDU J207 FKN J79 JFK DPK DPK-STAR.....	
<b>CHATTANOOGA (CHA)</b>		
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) GLAZR HOPAP VOSTK	
	HEVAN MZZ ROYKO (RNAV)-STAR.....	0000-2359
	or	
	(non-advanced RNAV only) GLAZR HOPAP VOSTK	
	HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	0000-2359
<b>CINCINNATI (CVG)</b>		
Albany (ALB).....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB.....	
Allentown (ABE).....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY JST HAR.....	
Atlanta (ATL).....	(RNAV only) BLUEGRASS-DP BWG ERLIN	
	(RNAV)-STAR.....	
	or	
	(all others) BLUEGRASS-DP BWG ROME-STAR.....	
Baltimore (BWI).....	V128 YRK HVQ J8 CSN OTT-STAR.....	
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) V128 YRK HVQ	
Birmingham (BHM) .....	J8 CSN RAVNN (RNAV)-STAR .....	
Boca Raton (BCT).....	BLUEGRASS-DP TRFWA LVT SYI VUZ .....	
	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO WALET HITTR	
	LATHY PRRIE (RNAV)-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP	
	HYK VXV J43 ATL J89 OTK PRRIE (RNAV)-STAR.	
Boston (BOS) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB HNK ALB GDM GARDNER-STAR.....	
Chicago O'Hare (ORD).....	(Advanced NAV only) MIE MZZR ROYKO	
	(RNAV)-STAR .....	
	or	
	(Non-Advance Nav only) DQN FWA KNOX-STAR....	
	or	
	DQN FWA WATSN (RNAV)-STAR .....	
Dallas/Ft. Worth (DFW) .....	IIU PXV J131 LIT BYP .....	
Fort Lauderdale (FLL) .....	(GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO OTK JINGL	
	(RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL J89	
	HITTR J75 FORTL-STAR .....	
Fort Myers (FMY) .....	(Turbojets-GPS or DME/DME-IRU equipped) HYK	
	VXV J43 SZW TYNEE (RNAV)-STAR .....	
Fort Myers (RSW) .....	(GPS or DME/DME-IRU equipped) HYK VXV J43	
	SZW TYNEE (RNAV)-STAR .....	1100-0300
Harrisburg (MDT).....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY JST HAR.....	
Houston (HOU).....	(GPS or DME/DME-IRU equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR.....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR.....	
Jackson (JAN).....	BLUEGRASS-DP TRFWA LVT SYI VUZ JAN .....	
La Guardia (LGA) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB MILTON-STAR .....	1000-1800
Manchester (MHT).....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB ALB EEN.....	
Marco Island (MKY) .....	HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	BLUEGRASS-DP TRFWA NOTWO SZW SSCOT	
	(RNAV)-STAR .....	
	or	
	(all others) BLUEGRASS-DP HYK VXV J43 ATL	
	SZW J43 PIE CYY-STAR .....	
Mobile (MOB) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ SJI .....	
Naples (APF) .....	HYK VXV J43 SZW PIKKR (RNAV)-STAR .....	
Newark (EWR) .....	ROD J29 J584 SLT FQM-STAR .....	
Newburgh (SWF).....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE	
	AHTIY PSB J49 HNK DNY V483 FILPS .....	
New Orleans (MSY) .....	BLUEGRASS-DP TRFWA LVT SYI VUZ J22 MEI	
	RYTHM-STAR .....	
Orlando Executive (ORL) .....	HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or	
	(GPS or DME/DME-IRU equipped) HYK VXV J99	
	IRQ J85 AMG SHEMP MTATA PIGLT	
	(RNAV)-STAR .....	1100-0400
Orlando Intl (MCO) .....	HYK VXV J99 IRQ J85 AMG LEESE-STAR .....	1100-0300
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) HYK VXV J99 IRQ J85 AMG BUGGZ (RNAV)-STAR.....	1100-0400
Philadelphia (PHL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY JST BUNTS-STAR.....	
Phoenix (PHX) .....	FAM J78 ABQ J18..... or FAM J78 IRW J74 SJN J18.....	
Portland (PWM) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 ALB ENE.....	
Providence (PVD) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB J49 HNK TEDDY-STAR .....	
Sarasota/Bradenton (SRQ).....	HYK VXV J43 SZW CLAMP-STAR .....	
Tampa (TPA) .....	HYK VXV J43 SZW DARBS-STAR .....	
	or (GPS or DME/DME-IRU equipped) HYK VXV J43 SZW FOXXX (RNAV)-STAR .....	
Washington Dulles (IAD).....	V128 YRK HVQ ROYIL-STAR..... or V128 YRK HVQ SHANON (RNAV)-STAR.....	
Washington Natl (DCA).....	V128 YRK HVQ WZRRD-STAR .....	
	or V128 YRK HVQ ELDEE (RNAV)-STAR.....	
West Palm Beach (PBI) .....	(GPS or DME/DME-IRU equipped) BLUEGRASS-DP TRFWA NOTWO OTK WLACE .... or (GPS or DME/DME-IRU equipped) BLUEGRASS-DP HYK VXV J43 ATL J89 OTK WLACE.....	
Wilkes Barre/Scranton (AVP) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE ANTIY PSB LVZ.....	
Windsor Locks (BDL) .....	(RNAV only) ROCKT (RNAV)-DP ROCKT CADRE AHTIY PSB RKA SWEDE SWEDE-STAR.....	
<b>DAYTONA BEACH (DAB)</b>		
Charlotte (CLT).....	CRG J51 SAV J207 FLO CTF-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) CRG J51 SAV HUSTN (RNAV)-STAR .....	
<b>FORT LAUDERDALE METRO AREA (FLL, FXE, PMP)</b>		
Albany (ALB).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130.....	
Atlanta (ATL) .....	J20 ORL J81 CHESN SINCA-STAR .....	1000-0300
	or (RNAV only) J20 ORL J81 CHESN CANUK (RNAV) -STAR .....	1000-0300
Baltimore (BWI) .....	(at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC OTT-STAR .....	1000-0300
	or (Water-Turbojets) ZAPPA PERMT AR16 ILM J40 RIC OTT-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J165 RIC OTT-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) (at or below 310) J20 ORL J53 CRG J51 SAV J55 CHS J165 RIC RAVNN (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) (at or above 330) J113 CRG J151 SAV J55 CHS J165 RIC RAVNN (RNAV)-STAR .....	1000-0300
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1000-0300

Terminals	Route	Effective Times (UTC)
Bedford (BED).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR ..... or (Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J79 JFK ORW-STAR .....	1000-0300
Bridgeport (BDR).....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED.....	
Charlotte (CLT) .....	(at or below 290) J20 ORL J53 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 FLO CTF-STAR .....	1000-0300
	or (at or above 330-Turbojets-GPS or DME/DME-IRU equipped) J113 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
	or (at or below 290-Turbojets-GPS or DME/DME-IRU equipped) J20 ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	1000-0300
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1000-0300
	or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR.....	1000-0300
	or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1000-0300
Cincinnati (CVG).....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
	(all others) CTY J91 VXV HARDU-STAR.....	1000-0300
	or (RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR ....	
Cleveland (CLE) .....	J20 ORL J53 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR .....	1000-0300
Columbus (CMH).....	J20 ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1000-0300
Cross City (CTY).....	J85 LLAKE CTY .....	1030-0300
	or CTY .....	
Dallas/Fort Worth (DFW) .....	LAL J73 SZW J2 CEW J50 AEX CQY.....	1000-0300
	or SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	1000-0300



Terminals	Route	Effective Times (UTC)
Danbury (DXR) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Daytona Beach (DAB) .....	J20 LLNCH MLB V3 .....	1030-0300
Denver (DEN) .....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	1030-0300
	or SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	1030-0300
Detroit/Wayne (DTW) .....	J20 ORL J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB) .....	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUX-STAR .....	
Pontiac (PTK), Windsor (CYQG) .....	J20 ORL J81 IRQ J85 DJB LLEE0-STAR .....	
Willow Run (YIP) .....	J20 ORL J81 IRQ J99 VXV J43 FLM DQN CRUX-STAR .....	1000-0300
Young (DET) .....	J20 ORL J81 IRQ J85 DJB LLEE0-STAR .....	1000-0300
East Hampton (HTO) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 .....	
Farmingdale (FRG) .....	(Water) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1030-0300
Gainesville (GNV) .....	J85 LLAKE LAL GNV or LAL GNV .....	
Groton/New London (GON) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Hartford (HFD) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW-030 J50 AEX DAS-STAR .....	1000-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE-STAR .....	1000-0300
Islip (ISP) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (CRG) .....	J20 ORL J53 .....	1030-0300
Kennedy (JFK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or below 290) J20 ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300
Lawrence (LWM) .....	(Water-Turbojets) (Alternate) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Louisville (SDF).....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN.....	
Melbourne (MLB) .....	J20 LLNCH MLB.....	1030-0300
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46.....	
Nashville (BNA).....	CTY J91 ATL GQO VOLLS-STAR.....	1000-0300
Newark (EWR).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109 FAK DYLIN-STAR.....	1000-0300
	or (at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR.....	1000-0300
	or (GPS or DME/DME-IRU equipped-at or above 330) J113 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped-at or below 310) J20 ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
New Haven (HVN) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED.....	
New Orleans (MSY) .....	SRQ Q100 REDFN Q105 HRV.....	1000-0300
	or LAL J73 SZW J2 .....	1000-0300
Ocala (OCF).....	J85 LLAKE LAL .....	1030-0300
	or LAL .....	1030-0300
Orlando (MCO) .....	J20 LLNCH GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast.....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW .....	1030-0300
Overwater Routes to the Northwest .....	LBV J616 .....	1030-0300
	or LBV J616 SRQ Q100 REDFN Q105 HRV J58 .....	1030-0300
Philadelphia (PHL).....	J20 ORL J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDS CEDAR LAKE-STAR .....	1000-0300
	or (Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL RADDS CEDAR LAKE-STAR .....	1000-0300
Pittsburgh (PIT) .....	(at or below 290) J20 ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
	or (at or above 330) J113 CRG J51 CAE PSK EKN IHD NESTO-STAR.....	1000-0300
Poughkeepsie (POU).....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR.....	
Providence (PVD) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Raleigh-Durham (RDU) .....	(at or below 290) J20 ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300

Terminals	Route	Effective Times (UTC)
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J174 ILM BRADE-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	BRADE-STAR .....	1000-0300
St Louis (STL) .....	THNDR CTY J151 VISQA QBALL-STAR .....	
	or	
	(/E, /G, /R, /J, /L, /Q) THNDR KPASA Q110	
	FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	LBV J43 ROGAN .....	1030-0300
	or	
	ROGAN .....	1030-0300
Springfield/Chicopee (CEF) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM	
	KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Tallahassee (TLH) .....	J85 LLAKE LAL SZW .....	1030-0300
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J85 THNDR LBV BRDGE-STAR .....	1030-0300
	or	
	BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK DEAKK	
	(RNAV)-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J85 THNDR	
	LBV DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM J109	
	BUF YOUTH-STAR .....	
Vero Beach (VRB) .....	J20 ARKES VRB .....	1030-0300
Washington Dulles (IAD) .....	(at or below 310) J20 ORL J53 CRG J51 SAV	
	J207 RDU FAK COATT-STAR .....	1000-0300
	or	
	(at or below 310-GPS or DME/DME-IRU	
	equipped) J20 ORL J53 CRG J51 SAV J207	
	RDU FAK BARIN-STAR .....	1000-0300
	(at or above 330-GPS or DME/DME-IRU	
	equipped) J113 CRG J51 SAV J207 RDU FAK	
	BARIN-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J207 RDU	
	FAK COATT-STAR .....	1000-0300
	or	
	(Water) ZAPPA PERMT AR16 ILM J109 FAK	
	COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) ZAPPA	
	PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
	(at or below 310) J20 ORL J53 CRG J51 SAV J55	
Washington Natl (DCA) .....	CHS J165 RIC IRONS-STAR .....	1000-0300
	or	
	(at or above 330) J113 CRG J51 SAV J55 CHS	
	J165 RIC IRONS-STAR .....	1000-0300
	or	
	(Water-Turbojets) ZAPPA PERMT AR16 ILM J40	
	RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or below	
	310) J20 ORL J53 CRG J51 SAV J55 CHS J165	
	RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped-at or above	
	330) J113 CRG J51 SAV J55 CHS J165 RIC	
	OJAAY (RNAV)-STAR .....	1000-0300
	or	

Terminals	Route	Effective Times (UTC)
	(Water-Turbojets-GPS or DME/DME-IRU equipped) ZAPPA PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	1000-0300
Westfield (BAF) .....	(Water-Turbojets) ZAPPA PERMIT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Westhampton Beach (FOK) .....	(Water-Turbojets) ZAPPA WOLFO AR18 WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turboprops) ZAPPA WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets-Overwater Routes to the NE) ZAPPA PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DEER PARK-STAR ..	
Worcester (ORH) .....	(Water-Turbojets) ZAPPA PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>FORT MYERS METRO AREA</b>		
<b>(RSW, FMY, APF, MKY, PGD)</b>		
Daytona Beach (DAB) .....	ORL .....	1030-0300
Gainesville (GNV) .....	LAL .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Jacksonville (CRG) .....	ORL J53 .....	1030-0300
Miami (MIA) .....	(all others) CYY CYY-STAR .....	1030-0300
	or	
	(/E, /G, /R, /J, /L, /Q) CYY DEEDS (RNAV)-STAR .....	1030-0300
Ocala (OCF) .....	LAL .....	1030-0300
Orlando (MCO) .....	LAL MINEE-STAR .....	1030-0300
	or	
	DOWNN MINEE-STAR .....	1030-0300
	or	
	LAL .....	1030-0300
	or	
	(Turbojets) ORL .....	1030-0300
	or	
	(Turbojets) DOWNN MINEE-STAR .....	1030-0300
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA) .....	RSW BRDGE-STAR .....	1030-0300
	or	
	V7 ROGAN J43 PIE .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) DEAKK (RNAV)-STAR .....	1030-0300
Westbound destinations .....	SRQ Q100 LEV J86 .....	
	or	
	BAGGS Q102 LEV J86 .....	
	or	

Terminals	Route	Effective Times (UTC)
<b>From PAGE FLD (FMY) only:</b>	SRQ 100 REDFN Q105 HRV J58.....	
Cincinnati (CVG) .....	(RNAV only) LAL CTY J91 VXV JAKIE (RNAV)-STAR or (all others) LAL CTY J91 ATL VXV HARDU-STAR....	
Cleveland Metro (CLE) .....	LAL CTY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	LAL CTY J91 HNN BREMN-STAR .....	
Detroit/Wayne (DTW) .....	LAL CTY J91 VXV J43 FLM DQN MIZAR-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEE0-STAR .....	
La Guardia (LGA) .....	ORL J53 CRG J51 SAV J207 J55 HPW J191 PXT KORRY-STAR.....	1100-0300
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Newark (EWR) .....	ORL J53 CRG J51 FAK DYLIN-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 FAK PHLBO(RNAV)-STAR .....	1100-0400
Washington Natl (DCA) .....	ORL J53 CRG J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1000-0300
<b>From SW FLORIDA INTL (RSW) only:</b>		
Atlanta (ATL) .....	RSW LAL J73 SZW LGC-STAR .....	1000-0300
	or (RNAV only) RSW LAL J73 SZW HONIE (RNAV)-STAR .....	1000-0300
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) RSW LAL CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) RSW LAL CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	1000-0300
	or (non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 KNOX-STAR .....	1000-0300
Cleveland (CLE) .....	RSW LAL J73 J119 TAY J85 IRQ J85 HVQ J85 TVT040 KEATN KEATN-STAR .....	
Columbus (CMH) .....	RSW LAL J73 J119 TAY J85 HVQ HNN BREMN-STAR .....	1000-0300
Dallas/Ft. Worth (DFW) .....	RSW SRQ Q100 REDFN Q105 HRV J58 AEX CQY ..	
	or RSW LAL J73 SZW J2 CEW J50 AEX CQY .....	1000-0300
Denver (DEN) .....	RSW SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
	or RSW LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	JOCKS ORL J53 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Willow Run (YIP) .....	LAL CTY J91 VXV J43 FLM DQN CRUXX-STAR .....	
Pontiac (PTK), Windsor (CYQG), Young (DET) .....	LAL J73 J119 TAY J85 DJB LLEE0-STAR .....	
Indianapolis (IND) .....	RSW LAL CTY J91 ATL J89 IIU DECEE-STAR .....	
Louisville (SDF) .....	RSW LAL CTY J91 ATL HCH DARBY-STAR .....	
Miami (MIA) .....	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	RSW LAL CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Nashville (BNA) .....	RSW LAL CTY J91 ATL GQO VOLLS-STAR .....	
Pittsburgh (PIT) .....	RSW ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Raleigh-Durham (RDU) .....	RSW ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	

Terminals	Route	Effective Times (UTC)
St Louis (STL) .....	LAL J73 SZW J41 VUZ STL .....	1100-0300
Washington Dulles (IAD) .....	RSW ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC IRON-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) RSW ORL J53 CRG J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
<b>GREENSBORO (GSO)</b>		
Chicago Midway (MDW) .....	PSK HNN FWA GOSHEN-STAR .....	1100-0300
	or PSK HVQ APE J178 FWA GOSHEN-STAR .....	1100-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) BOTTM FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0300
	or (non-advanced RNAV only) BOTTM FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1100-0300
Cincinnati (LUK) .....	PSK HVQ FLM .....	0700-2300
Detroit/Wayne (DTW) .....	BOTTM BKW GEMNI-STAR .....	
La Guardia (LGA) .....	J14 PXT KORRY-STAR .....	
Louisville (SDF) .....	VXV J99 GHATS EWO IIU .....	0700-2300
Newark (EWR) .....	J14 J51 FAK DYLIN-STAR .....	
	or (GPS or DME/DME-IRU equipped) J14 J51 FAK PHLBO (RNAV)-STAR .....	
<b>GREER (GSP)</b>		
Detroit/Wayne (DTW) .....	SPA HMV HNN WEEDA-STAR .....	
<b>HUNTSVILLE (HSV)</b>		
Chicago O'Hare (ORD) .....	MEM FTZ BDF BDF-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	(RNAV only) BNA IMPEL VHP FWA MIZAR-STAR .... or BNA CCT VHP FWA MIZAR-STAR .....	
<b>JACKSONVILLE METRO AREA (JAX)</b>		
Baltimore (BWI) .....	J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Charlotte (CLT) .....	J53 IRQ UNARM-STAR .....	
	or J51 SAV J207 FLO CTF-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J51 SAV HUSTN (RNAV)-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53 IRQ ADENA (RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) SAV CAE HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or (non-advanced RNAV only) SAV CAE HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Detroit/Wayne (DTW) .....	NOWAY J53 SPA HNN WEEDA-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) TAY J2 SJI COLUMBIA (RNAV)-STAR .....	
	or (Non-advanced NAV only) TAY J2 CEW J50 AEX DAS-STAR .....	
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) TAY J2 SJI WOLDE (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(Non-advanced NAV only) TAY J2 CEW J50 AEX DAS-STAR.....	
La Guardia (LGA) .....	J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR.....	1100-0400
Newark (EWR) .....	CRG J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) CRG J51 FAK PHLBO (RNAV)-STAR .....	
Philadelphia (PHL) .....	J51 SAV J55 CHS J121 SWL SWL034 RADD5 VCN-STAR.....	1100-0400
Tampa (TPA) .....	TAY LZARD-STAR .....	
	or (GPS or DME/DME-IRU equipped) TAY DADES (RNAV)-STAR.....	
Washington Dulles (IAD).....	SAV CHS J165 J109 FAK COATT-STAR..... or	1100-0400
	(GPS or DME/DME-IRU equipped) SAV J207 RDU FAK BARIN-STAR .....	1100-0400
Washington Natl (DCA).....	J51 SAV J55 CHS J165 RIC IRONS-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J51 SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1100-0400
<b>KEY WEST METRO AREA (NQX)</b>		
Daytona Beach (DAB).....	J41 RSW ORL .....	1030-0300
Fort Lauderdale (FLL).....	(all others) EYW DVALL-STAR .....	1030-0300
	or (/E, /G, /R, /J, /L, /Q) EYW CURSO (RNAV)-STAR.....	1030-0300
Fort Myers (RSW) .....	J41 .....	1030-0300
Melbourne (MLB).....	PHK.....	1030-0300
Miami (MIA) .....	(all others) EYW DVALL-STAR .....	1030-0300
	or (/E, G, /R, /J, /L, /Q) EYW CURSO (RNAV)-STAR .....	1030-0300
Orlando (MCO) .....	J41 RSW MINEE-STAR .....	1030-0300
Palm Beach (PBI) .....	PHK.....	1030-0300
Sarasota/Bradenton (SRQ).....	J41 RSW V7 ROGAN .....	1030-0300
Tallahassee (TLH) .....	J41 RSW LAL .....	1030-0300
	or (at or above FL360) J41 RSW TEPEE SZW .....	1030-0300
Tampa (TPA) .....	J41 RSW ROGAN BRDGE BRDGE-STAR .....	1030-0300
	or (GPS or DME/DME-IRU equipped) J41 RSW ROGAN DEAKK DEAKK (RNAV)-STAR.....	1000-0300
Vero Beach (VRB) .....	PHK.....	1030-0300
<b>KNOXVILLE (TYS)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) VXV HEVAN MZZ ROYKO (RNAV)-STAR..... or (non-advanced RNAV only) VXV HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	0000-2359
Cleveland Metro (CLE) .....	VXV J91 BULEY J91 HNN TVT KEATN-STAR .....	
Detroit/Wayne (DTW).....	VXV J91 HNN WEEDA-STAR.....	
La Guardia (LGA) .....	BKW J42 GVE KORRY-STAR.....	
<b>LAKELAND METRO AREA (LAL, GIF, BOW, BKV, X16)</b>		
Fort Lauderdale (FLL).....	(Jets only-all others) RSW FORTL-STAR .....	
Key West Intl (EYW).....	RSW J41.....	1030-0300
Miami (MIA).....	(Turbojets-GPS or DME/DME-IRU equipped) CYY SSCOT (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) WLACE (RANV)-STAR .....	1030-0300
<b>LEXINGTON (LEX)</b>		
Atlanta (ATL) .....	(RNAV only) AZQ SOT FLCON (RNAV)-STAR .....	
Cleveland (CLE) .....	CVG ABERZ-STAR .....	

Terminals	Route	Effective Times (UTC)
<b>LOUISVILLE METRO AREA (LOU, SDF)</b>		
From BOWMAN FIELD (LOU) only		
Dallas/Ft Worth (DFW) .....	PXV J131 LIT BYP.....	
Phoenix (PHX) .....	FAM J78 ABQ J18.....	
	or	
	FAM J78 IRW J74 SJN J18.....	
From LOUISVILLE INTL (SDF) only		
Atlanta (ATL) .....	MYS BWG ROME-STAR .....	
	or	
	(RNAV only) MYS BWG RMG ERLIN (RNAV)-STAR	
Cleveland Metro (CLE) .....	CVG ABERZ-STAR .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SWB ROKIT	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) SWB	
	TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SWB DAS-STAR .....	
<b>MEMPHIS (MEM)</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR.....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN RAVNN (RNAV)-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	
Boston (BOS) .....	J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
	FKN J79 JFK ORW-STAR .....	
	or	
	J118 SPA SPA100 J209 RDU J207 FKN J79 JFK	
	ORW-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J29 PXV SARGO (RNAV)-STAR .....	
	or	
	(all others) J29 PXV MOSEY-STAR.....	
Cleveland (CLE) .....	PXV ABERZ-STAR .....	
Denver (DEN) .....	RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	J29 PXV VHP FWA MIZAR-STAR.....	
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR .....	
Houston (IAH) .....	(Turbojets-DME/DME-IRU or GPS-equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR .....	
Kennedy (JFK) .....	J118 SPA SPA100 J209 ORF J121 SIE	
	CAMRN-STAR .....	
La Guardia (LGA) .....	J42 GVE KORRY-STAR .....	
Louisville (SDF) .....	BNA BNA037 BARRY EWO .....	
	or	
	Q29 SIDAE CHERI CHERI-STAR.....	
Minneapolis (MSP) .....	J35 STL IOW ALO KASPR-STAR .....	1300-0300
Newark (EWR) .....	J42 GVE DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 GVE	
	PHLBO (RNAV)-STAR .....	
Orlando (ORL/MCO) .....	MGM SZW J43 PIE LAL .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MGM SZW J43	
	PIE COSTR (RNAV)-STAR .....	1100-0400
	or	
	J41 MGM S2W J43 PIE LAL .....	
Philadelphia (PHL) .....	J42 GVE DPNT-STAR .....	
Pittsburgh (PIT) .....	J29 PXV IIU HNN WISKE-STAR .....	



Terminals	Route	Effective Times (UTC)
Sarasota/Bradenton (SRQ) .....	MGM SZW CLAMP-STAR .....	
Tampa (TPA) .....	MGM SZW DARBS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) MEM SZW	
	FOXX (RNAV)-STAR .....	1100-0400
Washington Dulles (IAD) .....	J42 BKW ROYIL-STAR .....	1100-1830
	or	
	PXV III J8 HVQ SHNON (RNAV)-STAR .....	1830-2230
	or	
	J42 BKW SHNON (RNAV)-STAR .....	2230-0300
	or	
	PXV III J8 HVQ ROYIL-STAR .....	1830-2230
Washington Natl (DCA) .....	J42 BKW WZRRD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW	
	ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	MGM SZW WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	J42 BNA J46 VXV SPA SPA100 J209 RDU J207	
	FKN J79 JFK DPK DPK-STAR .....	
<b>MIAMI METRO AREA</b>		
<b>(MIA, HWO, OPF, TMB, HST, X51)</b>		
Albany (ALB) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JOANI LGA LGA055 TRUDE	
	V487 CANAN V130 .....	
Atlanta (ATL) .....	J81 CHESN SINCA-STAR .....	1000-0300
	or	
	(RNAV only) J81 CHESN CANUK (RNAV)-STAR .....	1000-0300
Baltimore (BWI) .....	J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC	
	OTT-STAR .....	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM J40	
	RIC OTT-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J55 CHS J79 TYI J40 RIC RAVNN	
	(RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) VALLEY PERMT	
	AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1000-0300
Bedford (BED) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK DPK MAD HFD	
	GRAYM-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J174 HTO ORW	
	GRAYM-STAR .....	
Boston (BOS) .....	J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR ...	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 JFK ORW-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 III OKK	
	FISSK (RNAV)-STAR .....	1000-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 III	
	OKK V285 CLEFT OXI CGT .....	1000-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT	
	GLAZR HOPAP VOSTK HEVAN MZZ ROYKO	
	(RNAV)-STAR .....	1000-0300

Terminals	Route	Effective Times (UTC)	
	or		
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	1000-0300	
Cincinnati (CVG).....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....		
	or		
	(all others) CTY J91 VXV HARDU-STAR .....	1000-0300	
Columbus (CMH).....	J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....		
Cross City (CTY).....	LAL CTY .....	1030-0300	
Dallas/Fort Worth (DFW) .....	J616 SRQ Q100 REDFN Q105 HRV J58 AEX CQY .	1000-0300	
	or		
	LAL J73 SZW J2 CEW J50 AEX CQY.....	1000-0300	
Danbury (DXR) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....		
Daytona Beach (DAB)	J53 HEDLY MLB V3 or MLB V3.....	1030-0300	
Denver (DEN).....	LAL J73 SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....		
Detroit/Wayne (DTW).....	J53 SPA HNN WEEDA-STAR .....		
Detroit Satellites:			
Ann Arbor (ARB) .....	J81 IRQ J99 VXV J43 FLM DQN CRUXX-STAR .....		
Detroit (DET),			
Pontiac (PTK),			
Windsor (CYQG)			
Willow Run (YIP)			
Ann Arbor (ARB) .....	J81 IRQ J85 DJB LLEEO-STAR .....		
Fort Pierce (FPR) .....	J53 HEDLY or FPR .....	1030-0300	
Farmingdale (FRG).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....		
Gainesville (GNV) .....	Direct .....	1030-0300	
Hampton (HTO).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 .....		
Hartford (HFD) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....		
Houston Intcntl (IAH) .....	(DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300	
	or		
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300	
	or		
	J616 SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300	
Houston Hobby (HOU).....	(DME/DME-IRU or GPS-equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300	
	or		
	(GPS or DME/DME-IRU equipped) J616 SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300	
	or		
	(Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300	
Indianapolis (IND) .....	LAL CTY J91 ATL J89 IIU DECEE-STAR .....	1000-0300	1000-0300
Islip (ISP).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....		
Jacksonville (JAX).....	J53 .....	1030-0300	
Kennedy (JFK).....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	1000-0300	
	or		
	J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300	
La Guardia (LGA).....	(Water) VALLY PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1000-0300	
	or		
	J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1000-0300	
Lawrence (LWM) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....		
	or		

Terminals	Route	Effective Times (UTC)
	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	1000-0300
Manchester (MHT) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Melbourne (MLB) .....	J53 HEDLY or DRCT .....	1030-0300
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1000-0300
Montreal (CYUL) .....	VALLY PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	1000-0300
Newark (EWR) .....	(Water) VALLY PERMT AR16 ILM J109 FAK DYLIN-STAR .....	
	or J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) VALLY PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1000-0300
Newburgh (SWF) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London/Groton (GON) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J121 HTO .....	
New Orleans (MSY) .....	LAL J73 SZW J2 .....	1000-0300
	or (Water) J616 SRQ Q100 REDFN Q105 HRV .....	1000-0300
Ocala (OCF) .....	J73 LAL or DRCT .....	1030-0300
Orlando (MCO) .....	J53 PHK GOOFY-STAR .....	1030-0300
	or (PHK GOOFY-STAR .....	
Overwater Routes to the Northeast .....	(Water-Turbojets) VALLY PERMT AR16 ILM .....	
	or (Water-Turbojets) VALLY WOLFO AR18 DIW .....	
Overwater Routes to the Northwest .....	J616 SRQ Q100 LEV J86 .....	1030-0300
	or J616 SRQ Q100 REDFN Q105 HRV J58 .....	1030-0300
Philadelphia (PHL) .....	J53 CRG J51 SAV J55 CHS J121 SWL SWL034 RADDs VCN-STAR .....	1000-0300
	or (Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL RADDs VCN-STAR .....	1000-0300
Pittsburgh (PIT) .....	J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1000-0300
Poughkeepsie (POU) .....	(Water-Turbojets) VALLY PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW WETRO CEBEE SWL J174 HTO JORDAN (RNAV)-STAR .....	
Raleigh-Durham (RDU) .....	(Water-Turbojets) VALLY PERMT AR16 ILM BRADE-STAR .....	1000-0300
	or J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1000-0300
St Louis (STL) .....	WINCO CTY J151 VISQA QBALL-STAR .....	1000-0300
	or (/E, /G, /R, /J, /L, /Q) WINCO KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Sarasota/Bradenton (SRQ) .....	J616 .....	1030-0300

Terminals	Route	Effective Times (UTC)
Tallahassee (TLH) .....	J73 .....	
	or	
	LAL .....	1030-0300
Tampa (TPA) .....	J43 BRDGE BRDGE-STAR .....	1030-0300
	or	
	(GPS or DME/DME-IRU equipped) J43 DEAKK	
	DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ) .....	(Water-Turbojets) VALLY PERMT AR16 ILM J109	
	BUF YOUTH-STAR .....	
Vero Beach (VRB) .....	DRCT .....	1030-0300
	or	
	J53 HEDLY .....	
Washington Dulles (IAD) .....	J53 CRG J51 SAV J207 RDU FAK COATT-STAR ....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J207 RDU FAK BARIN-STAR .....	1000-0300
	or	
	(Water) VALLEY PERMT AR16 ILM J109 FAK	
	COATT-STAR .....	1000-0300
	or	
	(Water-GPS or DME/DME-IRU equipped) VALLY	
	PERMT AR16 ILM J109 FAK BARIN-STAR .....	1000-0300
Washington Natl (DCA) .....	(Turbojets) J53 CRG J51 SAV J55 CHS J165 RIC	
	IRONS-STAR .....	1000-0300
	or	
	(Water-Turbojets) VALLY PERMT AR16 ILM J40	
	RIC IRONS-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) J53 CRG J51	
	SAV J55 CHS J165 RIC OJAAY (RNAV)-STAR .....	1000-0300
	or	
	(Water-Turbojets-GPS or DME/DME-IRU	
	equipped) VALLY PERMT ILM J40 RIC OJAAY	
	(RNAV)-STAR .....	1000-0300
Westhampton (FOK) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turbojets) VALLY WOLFO AR18 DIW	
	WETRO CEBEE SWL J121 SIE V139 RICED	
	RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) VALLY PERMT AR16 .....	
Windsor Locks (BDL) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) VALLY PERMT AR16 ILM	
	KEMPR SYB J79 JFK DPK MAD HFD .....	
<b>MOBILE (MOB)</b>		
Houston (HOU) .....	(DME/DME-IRU or GPS-equipped) SJI COLUMBIA	
	(RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
Houston (IAH) .....	(DME/DME-IRU or GPS-equipped) SJI WOLDE	
	(RNAV)-STAR	
	or	
	(Non-advanced NAV only) SJI J50 AEX DAS-STAR.	
<b>MYRTLE BEACH (MYR)</b>		
Detroit/ Wayne (DTW) .....	BKW GEMNI-STAR .....	
<b>NASHVILLE</b>		
Baltimore (BWI) .....	J42 BKW J147 CSN OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW J147	
	CSN OTT-STAR .....	
Boca Raton (BCT) .....	(GPS or DME/DME-IRU equipped) MGM SZW	
	PRRIE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
Boston (BOS).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79	
Chicago/Midway (MDW) .....	JFK ORW-STAR .....	
	(/E/G/R/J/L/Q only) IIU OKK FISSK	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) IIU OKK V285 CLEFT	
	OXI CGT .....	0000-2359
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) IIU HEVAN MZZ ROYKO	
	(RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) IIU HEVAN MZZ	
	MZZ344/33 OXI KNOX-STAR .....	0000-2359
	or	
	IIU MZZ OXI KNOX-STAR .....	
Cincinnati (CVG).....	BWG V49 ABB V47 CVG .....	
Cleveland (CLE) .....	IIU ABERZ-STAR .....	
Columbus (CMH).....	LVT V493 YRK YRK035 APE168 NIKLS .....	
Denver (DEN).....	FAM J112 BUM J110 GCK J154 RYLIE	
	DANDD-STAR .....	
Detroit/Wayne (DTW).....	(RNAV only) IMPEL VHP FWA MIZAR-STAR .....	
	or	
	CCT VHP FWA MIZAR-STAR .....	
Fort Lauderdale (FLL).....	(all others) J39 MGM SZW J41 PIE FORTL-STAR ..	
Fort Myers (FMY, RSW).....	(Turbojets-GPS or DME/DME-IRU equipped) J39	
	MGM J41 SZW SSCOT (RNAV)-STAR .....	1100-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) LIT J180 SWB	
	ROKIT (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR .....	
Houston (IAH) .....	(Turbojets-GPS or DME/DME-IRU equipped) LIT	
	J180 SWB TXMEX (RNAV)-STAR .....	
	or	
	(Non-advanced NAV only) LIT J180 SWB	
	DAS-STAR .....	
Indianapolis (IND) .....	J39 IIU DECEE-STAR .....	
Kennedy (JFK).....	J46 VXV SPA SPA100 J209 ORF J121 SIE	
	CAMRN-STAR .....	
La Guardia (LGA).....	J42 GVE KORRY-STAR .....	
Miami (MIA).....	(all others) J39 MGM SZW J41 PIE CY-STAR .....	
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) J39	
	MGM SZW SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	IIU J89 BAE EAU-STAR .....	
Newark (EWR) .....	SPA J14 J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 J51	
	FAK PHLBO (RNAV)-STAR .....	1100-0400
Orlando (MCO, ORL) .....	J39 MGM SZW J43 PIE LAL .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) J39 MGM SZW	
	J43 PIE COSTR (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	J42 OTT DPNT-STAR .....	
Pittsburgh (PIT) .....	IIU HNN WISKE-STAR .....	
St. Louis (STL) .....	QBALL-STAR .....	
Toronto (CYYZ).....	J39 ROD J43 CRL J586 YXU V98 YWT V216 .....	
Washington Dulles (IAD).....	J42 BKW ROYIL-STAR .....	
	or	
	J42 BKW SHNON (RNAV)-STAR .....	
Washington Natl (DCA).....	J42 BKW WZRRD-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) J42 BKW	
	ELDEE (RNAV)-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped)	
	MGM SZW WLACE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL).....	J46 VXV SPA SPA100 J209 RDU J207 FKN J79 JFK DPK DPK-STAR .....	
<b>ORLANDO METRO AREA</b>		
<b>(MCO, ORL, ISM, LEE, SFB)</b>		
Baltimore (BWI) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR .....	1100-0400
Detroit/Wayne (DTW) .....	JAGUAR-DP IRQ J53 SPA HNN WEEDA-STAR .....	
Fort Pierce (FPR) .....	VRB .....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJ1 COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) PIE REMIS Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) SZW J2 SJ1 WOLDE (RNAV)-STAR .....	
	or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Key West (EYW) .....	RSW J41 .....	1030-0300
Overwater Routes to the Northeast .....	(Water-Turbojets) MLB LENDS AR16 ILM .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW .....	
Wilmington (ILM) .....	(Water-Turbojets) MLB LENDS AR16 .....	
From ORLANDO EXECUTIVE (ORL) only		
Albany (ALB) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL) .....	J53 CRG DBN SINCA-STAR .....	
	or (RNAV only) J53 CRG DBN CANUK RNAV-STAR .....	
Baltimore (BWI) .....	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	1100-0400
	or J53 CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
Bedford (BED) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Bridgeport (BDR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	J53 CRG J51 SAV J207 FLO CTF-STAR .....	
	or (Turbojets-GPS or DME/DME-IRU equipped) J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	
Cincinnati (CVG) .....	(RNAV only) J53 CRG J45 ATL J43 VXV JAKIE (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
	or (all others) J53 CRG J45 ATL J43 VXV HARDU-STAR .....	
Cleveland (CLE) .....	J53 SPA J85 TVT040 KEATN KEATN-STAR .....	
Columbus (CMH) .....	J53 SPA J85 HVQ HNN BREMN-STAR .....	
Dallas/Ft. Worth (DFW) .....	PIE REMIS Q100 REDFN Q105 HRV J58 AEX CQY .	
Danbury (DXR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Denver (DEN) .....	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	VXV J91 HNN WEEDA-STAR .....	
Detroit Satellites: Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	J53 CRG J45 ATL J91 VXV J43 FLM DQN CRUX-STAR .....	1100-0400
	or J53 IRQ J85 DJB LLEE0-STAR .....	
East Hampton (HTO) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Farmingdale (FRG) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Hartford (HFD) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	J53 CRG J45 ATL J89 IIU DECEE-STAR .....	
Islip (ISP) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	0700-0000
	or J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	
La Guardia (LGA) .....	(Water-Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	1100-0300
	or J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0300
Lawrence (LWM) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	
Manchester (MHT) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1100-0400
Montreal (CYUL) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nantucket (ACK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Nashville (BNA) .....	CTY J91 ATL VOLLS-STAR .....	1100-0400
Newark (EWR) .....	(GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Newburgh (SWF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London (GON) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	

Terminals	Route	Effective Times (UTC)
Philadelphia (PHL) .....	(Water-Turbojets) J53 CRG J55 CHS J121 SWL SWL034 RADD5 VCN-STAR .....	1100-0400
Pittsburgh (PIT) .....	CRG J51 CAE PSK EKN IHD NESTO-STAR .....	1100-0400
Poughkeepsie (POU) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
St. Louis (STL) .....	CTY SZW J41 VUZ J151 VISQA QBALL-STAR .....	1100-0400
Toronto (CYYZ) .....	(Water-Turbojets) MLB LENDS AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Natl (DCA) .....	(Water-Turbojets-GPS or DME/DME-IRU equipped) MLB LENDS AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
	or	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC IRON5-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) MLB LEND5 AR16 ILM J109 FAK BARLIN -STAR .....	
	or	
	(Water) MLB LENDS AR16 ILM J109 FAK COATT-STAR .....	
Westfield (BAF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Westhampton Beach (FOK) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or	
	(Water-Turboprops) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Windsor Locks (BDL) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
From ORLANDO INTL (MCO) only		
Atlanta (ATL) .....	MCOY-DP AMG SINCA-STAR .....	1100-0400
	or	
	(RNAV only) JAGUAR-DP DBN CANUK (RNAV)-STAR .....	1100-0400
Baltimore (BWI) .....	MCOY-DP SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0400
	or	
	(Water-Turbojets) MLB LENDS AR16 ILM J40 RIC OTT-STAR .....	
Bedford (BED) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Beverly (BVY) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or	
	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK ORW-STAR .....	1100-0300
	or	
	MCOY-DP SAV J55 CHS J79 JFK ORW-STAR .....	1100-0300
Bridgeport (BDR) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	MCOY-DP SAV J207 FLO CTF-STAR .....	



Terminals	Route	Effective Times (UTC)
	or	
Chicago Midway (MDW) .....	(Turbojets—GPS or DME/DME—IRU equipped) MCOY—DP SAV HUSTN (RNAV)—STAR .....	
	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)—STAR .....	1100—0400
	or	
Chicago O'Hare (ORD) .....	(non—advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100—0400
	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)—STAR .....	1100—0400
	or	
Cincinnati (CVG) .....	(non—advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX—STAR .....	1100—0400
	(RNAV only) MCOY—DP AMG J45 ATL J43 VXV JAKIE (RNAV)—STAR .....	
	or	
Columbus (CMH) .....	(all others) MCOY—DP AMG J45 ATL J43 VXV HARDU—STAR .....	1100—0400
	MCOY—DP IRQ J53 SPA J85 HVQ HNN BREMN—STAR .....	1100—0400
Danbury (DXR) .....	(Water—Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED—STAR .....	
Detroit/Wayne (DTW) .....	JAGUAR—DP IRQ J53 SPA HNN WEEDA—STAR .....	
Detroit Satellites:		
Detroit (DET), Windsor (CYQG), Pontiac (PTK), Willow Run (YIP), Ann Arbor (ARB) .....	JAGUAR—DP IRQ J85 DJB LLEE0—STAR .....	
Fort Myers (FMY, RSW) .....	LBV .....	
Hartford (HFD) .....	(Water—Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Indianapolis (IND) .....	CTY J91 ATL J89 IIU DECEE—STAR .....	1100—0400
Islip (ISP) .....	(Water—Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Kennedy (JFK) .....	(Water) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN—STAR .....	
	or	
La Guardia (LGA) .....	MCOY—DP SAV J55 CHS J121 SIE CAMRN—STAR ..	
	MCOY—DP SAV J207 RDU J55 HPW J191 PXT ENO—STAR .....	1100—0300
	or	
Lawrence (LWM) .....	(Water—Turbojets) MLB LENDS AR16 ILM J40 TYI HPW J191 PXT ENO—STAR .....	
	(Water—Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM—STAR .....	
	or	
Louisville (SDF) .....	(Water—Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM—STAR .....	
Minneapolis (MSP) .....	CTY J91 ATL HCH DARBY—STAR .....	1100—0400
	(all others) CTY VUZ ALO KASPR—STAR .....	
	or	
	(/E, /G, /R, /J, /L, /Q) WEBSS BRUTS Q110 FEONA VUZ ALO KASPR—STAR .....	
Montreal (CYUL) .....	(Water—Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT—STAR .....	
Nantucket (ACK) .....	(Water—Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Nashville (BNA) .....	CTY J91 ATL VOLLS—STAR .....	1100—0400
Newark (EWR) .....	(Water—Turbojets) MLB LENDS AR16 ILM J109 FAK DYLIN—STAR .....	
	or	
	MCOY—DP SAV J207 FLO J55 J51 FAK DYLIN—STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1100-0400
	or (Turbojets-WATER) MLB LENDS AR16 ILM J109 FAK DYLIN-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) MCCOY SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped-WATER) MLB LEND S AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	1100-0400
Newburgh (SWF) .....	(Water-Turbojets)-MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
New London (GON) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Philadelphia (PHL) .....	(Turbojets) MCOY-DP SAV J55 CHS J121 SWL SWL034 RADD S VCN-STAR .....	1100-0400
	or (Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL RADD S VCN-STAR .....	
Pittsburgh (PIT) .....	MCOY-DP SAV J51 CAE PSK EKN IHD NESTO-STAR .....	1100-0400
Poughkeepsie (POU) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD) .....	(Water-Turbojets) MLB ETECK AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
St. Louis (STL) .....	CTY J151 VISQA QBALL-STAR .....	
	or (/E, /G, /R, /J, /L, /Q) WEBBS BRUTS Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Toronto (CYYZ) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 JFK CFB J95 BUF YOUTH-STAR .....	
Washington Dulles (IAD) .....	MCOY-DP SAV J55 CHS J165 J109 FAK COATT-STAR .....	1100-0300
Westfield (BAF) .....	(Water-Turbojets) MLB LENDS AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) DEARY VRB FRWAY (RNAV)-STAR .....	
	or DEARY VRB TUXXI-STAR .....	
<b>PALM BEACH METRO AREA (PBI, BCT, LNA, UTX, SUA)</b>		
Albany (ALB) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JOANI LGA LGA055 TRUDE V487 CANAN V130 .....	
Atlanta (ATL) .....	(RNAV only) ORL J81 CHESN CANUK (RNAV)-STAR .....	1100-0300
	or ORL J81 CHESN SINCA-STAR .....	1100-0300
Baltimore (BWI) .....	(Water-Turbojets) A699 PERMT AR16 ILM J40 RIC OTT-STAR .....	
	or ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC OTT-STAR .....	1100-0300
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC RAVNN (RNAV)-STAR .....	
	or	

Terminals	Route	Effective Times (UTC)
	(GPS or DME/DME-IRU equipped) ORL CRG J51 SAV J55 CHS J79 TYI J40 RIC RAVNN (RNAV)-STAR.....	1100-0300
Bedford (BED).....	(Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Beverly (BVY).....	(Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
Boston (BOS) .....	(Water-Turbojets) A699 PERMT AR16 KEMPR SBY J79 JFK ORW-STAR .....	1100-0300
	or	
	ORL J53 CRG J51 SAV J55 CHS J79 JFK ORW-STAR.....	1100-0400
Bridgeport (BDR) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Charlotte (CLT) .....	ORL J53 CRG J51 SAV J207 FLO CTF-STAR .....	
	or	
	(Turbojets-GPS or DME/DME IRU equipped) ORL J53 CRG J51 SAV HUSTN (RNAV)-STAR .....	
Chicago Midway (MDW) .....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1100-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0400
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR.....	1100-0300
	or	
	(non-advanced RNAV only) LAL CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
Cincinnati (CVG).....	(All Others) CTY J91 VXV HARDU-STAR .....	1100-0300
	or	
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
Cleveland (CLE) .....	ORL J53 SPA J85 TVT040 KEATN KEATN-STAR ....	1100-0300
Columbus (CMH).....	ORL J81 IRQ J53 SPA J85 HVQ HNN BREMN-STAR .....	1100-0300
Cross City (CTY).....	LAL .....	1030-0300
Dallas/Ft Worth (DFW) .....	SRQ Q100 REDFN Q105 HRV J58 AEX CQY .....	
Danbury (DXR) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR.....	
Daytona Beach (DAB) .....	MLB .....	1030-0300
Denver (DEN).....	SRQ Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR .....	
	or	
	CTY SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW).....	ORL J53 SPA HNN WEEDA-STAR .....	
Dixon (DIW) .....	(Water-Turbojets) WOLFO AR18 .....	
East Hampton (HTO) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
Farmingdale (FRG) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Fort Myers (RSW) .....	RSW .....	1030-0300
Groton (GON).....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	

Terminals	Route	Effective Times (UTC)
Hartford (HFD) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD V1 .....	
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) LAL J73 SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or (Non-advanced NAV only) LAL J73 SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 IU DECEE-STAR .....	1100-0300
Islip (ISP) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SARDI CCC .....	
Jacksonville (JAX) .....	ORL J53 .....	1030-0300
Kennedy (JFK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE J121 SIE CAMRN-STAR .....	1100-0300
	or ORL J53 CRG J51 SAV J55 CHS J121 SIE CAMRN-STAR .....	1000-0300
La Guardia (LGA) .....	(Water-Turbojets) A699 PERMT AR16 ILM J40 TYI HPW J191 PXT KORRY-STAR .....	
	or ORL J53 CRG J51 SAV J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0400
Lawrence (LWM) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD GRAYM-STAR .....	
	or (Water-ALT-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Louisville (LOU) .....	CTY J91 ATL HCH DARBY-STAR .....	1100-0300
Manchester (MHT) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK ALB EEN .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	1100-0300
Montreal (CYUL) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK J37 ALB J6 PLB ABCOT-STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	1100-0300
Nantucket (ACK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO V46 .....	
Newark (EWR) .....	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK PHLBO (RNAV)-STAR .....	
	or ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK DYLIN-STAR .....	1100-0300
	or (WATER) A699 PERMT AR16 ILM J109 FAK DYLIN-STAR .....	
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 FLO J55 J51 FAK PHLBO (RNAV)-STAR .....	1100-0300
Newburgh (SWF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
New Haven (HVN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED MAD193 KEYED .....	
Ocala (OCF) .....	LAL .....	1030-0300

Terminals	Route	Effective Times (UTC)
Orlando (MCO).....	BAIRN GOOFY-STAR .....	1030-0300
Overwater Routes to the Northeast .....	(Water) A699 PERMT AR16 ILM or WOLFO AR18 DIW .....	1030-0300
Philadelphia (PHL).....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL RADD S VCN-STAR .....	
	or ORL J53 CRG J51 SAV J55 CHS J121 SWL SWLO34 RADD S VCN-STAR .....	1100-0300
Pittsburgh (PIT) .....	ORL J53 CRG J51 CAE PSK EKN IHD NESTO-STAR .....	
Poughkeepsie (POU) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK HUDSON-STAR .....	
Providence (PVD).....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J174 HTO JORDN (RNAV)-STAR .....	
Raleigh/Durham (RDU) .....	(Water-Turbojets) A699 PERMT AR16 ILM BRADE-STAR .....	
	or ORL J53 CRG J51 SAV J55 CHS J174 ILM BRADE-STAR .....	1100-0400
St. Louis (STL) .....	TBIRD CTY J151 VISQA QBALL-STAR .....	
	or (/E,/G,/R,/J,/L,/O) TBIRD KPASA Q110 FEONA VUZ J151 VISQA QBALL-STAR .....	
Springfield (CEF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Tallahassee (TLH) .....	LAL .....	1030-0300
Tampa (TPA).....	LBV BRDGE-STAR .....	1030-0300
	or BRDGE BRDGE-STAR .....	1030-0300
	or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1000-0300
	or (GPS or DME/DME-IRU equipped) DEAKK DEAKK (RNAV)-STAR .....	1030-0300
Toronto (CYYZ).....	(Water-Turbojets) A699 PERMT AR16 ILM J109 BUF YOUTH-STAR .....	
Washington Dulles (IAD) .....	(Water-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J109 FAK BARIN-STAR .....	
	or (Water) A699 PERMT AR16 ILM J109 FAK COATT-STAR .....	
	or (GPS or DME/DME-IRU equipped) ORL J53 CRG J51 SAV J207 RDU FAK BARIN-STAR .....	
	or ORL J53 CRG J51 SAV J207 RDU FAK COATT-STAR .....	
Washington Natl (DCA).....	(Water) A699 PERMT AR16 ILM J40 RIC IRONS-STAR .....	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) A699 PERMT AR16 ILM J40 RIC OJAAY (RNAV)-STAR .....	
Westfield (BAF) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 VILLS DPK DPK-STAR .....	
Westhampton Beach (FOK) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 HTO .....	
White Plains (HPN) .....	(Water-Turbojets) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or (Water-Turboprops) A699 RAMJT AR18 DIW WETRO CEBEE SWL J121 SIE V139 RICED RICED-STAR .....	
Wilmington (ILM) .....	(Water-Turbojets) A699 PERMT AR16 .....	

Terminals	Route	Effective Times (UTC)
Windsor Locks (BDL).....	(Water-Turbojets) PERMT A699 AR16 ILM KEMPR SBY J179 VILLS DPK DPK-STAR .....	
Worcester (ORH) .....	(Water-Turbojets) A699 PERMT AR16 ILM KEMPR SBY J79 JFK DPK MAD HFD .....	
<b>PENSACOLA (PNS)</b>		
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) MGM RESPE GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	0000-2359
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SJI AEX DAS-STAR.....	1000-0300
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) ROMMY HRV WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SJI AEX DAS-STAR.....	1000-0300
<b>PORT AU PRINCE (MTPP)</b>		
Atlanta (ATL) .....	(if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG SINCA-STAR .....	
	or	
	ALBBE A636 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
	or	
	(if unable FL370 by CVIKK) ALBBE A636 ZIN FLL ORL CRG SINCA-STAR .....	
	or	
	(if unable FL370 by CVIKK) JOSES A315 ZIN FLL ORL CRG CANUK (RNAV)-STAR .....	
Kennedy (JFK) .....	BOTES G444 GTK M594 CERDA LUCTI L454 OWENZ CAMRN .....	
	or	
	BOTES G444 GTK M594 CERDA L453 AZEJU BERGH L454 OWENZ CAMRN .....	
	or	
	BOTES G444 GTK L452 OXANA AR8 ECG ORF J121 SIE CAMRN-STAR .....	
	or	
	JOSES A315 ZIN A756 DUKKY A555 ZQA AR3 PANAL DIW WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
Newark (EWR) .....	ALBBE M594 CERDA LUCTI L454 BERGH L454 OWENZ CYN GXU RBV V249 METRO .....	
	or	
	ALBBE M594 GTK L452 OXANA AR8 ECG FAK DYLIN-STAR .....	
	or	
	ALBBE M594 GTK L452 OXANA AR8 ECG FAK PHLBO (RNAV)-STAR .....	
<b>RALEIGH-DURHAM (RDU)</b>		
Albany (ALB) .....	TYI J79 SBY J79 JOANI LGA LGA055 V487 V130 ..	1100-0400
Atlanta (ATL) .....	PACKK-DP AZELL CAE J4 IRQ SINCA-STAR .....	1100-0400
	or	
	(RNAV only) PACKK-DP AZELL CAE J4 IRQ CANUK RNAV-STAR .....	1100-0400
Boston (BOS) .....	TYI J79 JFK ORW-STAR .....	
Chicago Midway (MDW) .....	PACKK-DP AZELL PSK HVQ FWA GOSHEN-STAR ..	1100-0400
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) PACKK-DP AZELL HMV FLM HEVAN MZZ ROYKO (RNAV)-STAR .....	1100-0400
	or	
	(non-advanced RNAV only) PACKK-DP AZELL HMV FLM HEVAN MZZ MZZ344/33 OXI KNOX-STAR ..	1100-0400

Terminals	Route	Effective Times (UTC)
Cincinnati (CVG) .....	(RNAV only) HMY JAKIE (RNAV)–STAR..... or (all others) HMY HARDU–STAR.....	
Columbia (CAE) .....	FAY–DP FAY FLO .....	1100–0400
Dallas/Ft Worth (DFW) .....	PACKK–DP AZELL SPA J14 VUZ J52 SQS CQY .....	1100–0400
Detroit/Wayne (DTW) .....	AZELL PSK BKW GEMNI–STAR .....	
Fort Lauderdale (FLL) .....	(Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CHS J79 OMN FISEL (RNAV)–STAR..... or (Water–Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CLB BAHAA AR21 CRANS FISEL (RNAV)–STAR .....	
	or (Turbojets) TARL–DP CHS J79 OMN GISSH–STAR ..	
	or (Water–Turbojets) TARL–DP CLB BAHAA AR21 CRANS HILL FATHR GISSH–STAR.....	
	or (Turboprops) TARL–DP CHS J79 OMN MLB BLUFI–STAR .....	
	or (Water–Turboprops–GPS or DME/DME–IRU equipped) TARL–DP CLB BAHAA AR21 CRANS FISEL (RNAV)–STAR .....	
	or (Water–Turboprops) TARL–DP CLB BAHAA AR21 CRANS HILL FATHR GISSH–STAR.....	
Houston (HOU) .....	(GPS or DME/DME–IRU equipped) VUZ JAN AEX ROKIT (RNAV)–STAR .....	
	or (Non–advanced NAV only) VUZ JAN AEX DAS–STAR.....	
Houston (IAH) .....	(Turbojets–GPS or DME/DME–IRU equipped) VUZ JAN AEX TXMEX (RNAV)–STAR .....	
	or (Non–advanced NAV only) VUZ JAN AEX DAS–STAR.....	
Kennedy (JFK) .....	TYI ORF J121 SIE CAMRN–STAR.....	1100–0400
La Guardia (LGA) .....	LVL HPW J191 PXT KORRY–STAR .....	
Miami (MIA) .....	(Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CHS J79 OMN HILEY (RNAV)–STAR .... or (Water–Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CLB SEELO AR22 JORAY HILEY (RNAV)–STAR.....	
	or (Turbojets) TARL–DP CHS J79 OMN ANNEY–STAR.. or (Water–Turbojets) TARL–DP CLB SEELO AR22 JORAY OSOGY ENVOY YOSSY MILSY BOYUR HILEY KAINS.....	
	or (Turboprops) TARL–DP CHS J79 OMN ANNEY–STAR .....	
Newark (EWR) .....	LVL FAK DYLIN–STAR.....	1100–0300
	or (GPS or DME/DME–IRU equipped) LVL FAK PHLBO (RNAV)–STAR .....	1100–0300
Newburgh (SWF) .....	TYI J79 JFK BDR V91 STUBY .....	1100–0300
Orlando (MCO) .....	(Turbojets) TARL–DP CHS J79 OMN BITHO–STAR.. or (GPS or DME/DME–IRU equipped) TARHEEL–DP CHS J79 OMN CWRD (RNAV)–STAR.....	1100–0400
Orlando (ORL) .....	(Turbojets) TARL–DP CHS J79 OMN CORLL–STAR ..	1100–0400
Palm Beach (PBI) .....	(Turbojets–GPS or DME/DME–IRU equipped) TARL–DP CHS J79 OMN FRWAY (RNAV)–STAR ...	

Terminals	Route	Effective Times (UTC)
	or (Turbojets) TARL-DP CHS J79 OMN TUXXI-STAR ..	
	or (Water-Turbojets-GPS or DME/DME-IRU equipped) TARL-DP CLB SEELO AR19 AYBID CAYSL (RNAV)-STAR.....	
	or (Water-Turbojets) TARL-DP CLB SEELO AR19 AYBID MIMMI NEUBE SWOMP SANZZ CAYSL ....	1100-0400
Philadelphia (PHL) .....	V3 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	PACK-DP ROA EKN IHD NESTO-STAR .....	1100-0400
Sarasota (SRQ) .....	FAY-DP FAY CAE J75 TAY J85 GNV LAL .....	1100-0400
Savannah (SAV) .....	TARL-DP CHS .....	1100-0400
Tampa (TPA) .....	FAY-DP FAY CAE J75 TAY LZARD-STAR .....	1100-0400
	or (GPS or DME/DME-IRU equipped) FAY-DP FAY CAE J75 TAY DADES (RNAV)-STAR .....	1100-0400
Windsor Locks (BDL) .....	TYI J79 SBY J79 JFK DPK-STAR.....	1100-0400
<b>SAN JUAN (TJSJ)</b>		
Atlanta (ATL) .....	HARDE A555 ZQA FLL ORL CRG CANUK (RNAV)-STAR.....	
	or HARDE A555 ZQA FLL ORL CRG SINCA-STAR.....	
	or CONCH R507.....	
Atlantic City (ACY) .....	ELMUC L451 LETON L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL J121 SIE .....	
Baltimore (BWI) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR.....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....	
	or ELMUC L451 OLDEY AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR.....	
Bedford (BED).....	ELMUC L454 LUCTI OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or ELMUC L451 LETON L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Charlotte (CLT) .....	ELMUC L451 OLDEY CHS CHESTERFIELD-STAR...	
	or ELMUC L451 OLDEY CHS HUSTN (RNAV)-STAR....	
Cincinnati (CVG).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV JAKIE (RNAV)-STAR .....	
	or ELMUC L451 OLDEY METTA CHS SPA CAE VXV JAKIE (RNAV)-STAR .....	
Cleveland (CLE) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG HVQ TVT KEATN-STAR .....	
	or ELMUC L451 OLDEY METTA CHS CAE HVQ TVT KEATN-STAR .....	
Dayton (DAY) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG VXV J43 FLM KEKEE-STAR .....	



Effective  
Times  
(UTC)

Terminals	Route
	or
	ELMUC L451 OLDEY METTA CHS CAE VXV J43
	FLM KEKEE-STAR .....
Detroit (DTW) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG HNN WEEDA-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA HNN
	WEEDA-STAR .....
Indianapolis (IND) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG IUU V51 DECEE DECEE-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA CAE VXV
	J89 IUU V51 DECEE DECEE-STAR .....
Kennedy (JFK) .....	ELMUC L454 LUCTI L454 OWENZ CAMRN .....
	or
	ELMUC L453 LAMER L453 AZEZU BERGH L454
	OWENZ CAMRN .....
	or
	ELMUC L451 OLDEY AR3 PANAL DIW WETRO
	CEBEE SWL J121 SIE CAMRN-STAR .....
Louisville (SDF) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG HCH DARBY-STAR .....
	or
	ELMUC L451 OLDEY METTA CHS SPA HCH
	DARBY-STAR .....
Newark (EWR) .....	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
	DYLIN-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK
	PHLBO (RNAV)-STAR .....
	or
	ELMUC L454 LUCTI L454 BERGH L454 OWENZ
	CYN GXU RBV V249 METRO .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454
	OWENZ CYN GXU RBV V249 METRO .....
Ottawa (CYOW) .....	ELMUC L454 LUCTI L454 JFK SYR J599 .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454
	JFK SYR J599 .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG SYR J599 .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM SYR J599 .....
Providence (PVD) .....	ELMUC L454 LUCTI L454 BERGH OWENZ HTO
	JORDN .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH OWENZ
	HTO JORDN .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG SWL J174 HTO JORDN .....
	or
	ELMUC L451 OLDEY AR3 PANAL DIW SWL J174
	HTO JORDN .....
Quebec (CYQB) .....	ELMUC L454 LUCTI L454 JFK PLB J560 .....
	or
	ELMUC L451 CERDA L453 AZEZU BERGH L454
	JFK PLB J560 .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8
	ECG ORF SBY J209 VILLS SAX J6 PLB J560 .....
	or
	ELMUC L451 OLDEY AR3 PANAL DIW J174 ORF
	SBY J209 VILLS SAX J6 PLB J560 .....

Terminals	Route
Raleigh-Durham (RDU) .....	ELMUC L451 OLDEY ILM BRADE-STAR .....
Teterboro (TEB).....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....
	or
	ELMUC L451 CERDA L453 AZEJU BERGH L454 OWENZ .....
	or
	ELMUC L454 LUCTI L454 OWENZ.....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....
Washington (DCA) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR.....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....
Washington (IAD) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK BARIN (RNAV)-STAR .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG FAK COATT-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....
	or
	ELMUC L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR .....
White Plains (HPN) .....	ELMUC L454 LUCTI L454 OWENZ.....
	or
	ELMUC L451 CERDA L453 AZEJU BERGH L454 OWENZ .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR .....
	or
	ELMUC L451 OLDEY ECG ORF J121 SIE BOUNO-STAR .....
Winsor Locks (BDL) .....	ELMUC L454 LUCTI L454 JFK DBK DEER PARK-STAR .....
	or
	ELMUC L451 LETON L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DEER PARK-STAR .....
	or
	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DEER PARK-STAR .....
Winnipeg (CYWG) .....	ELMUC L451 CERDA LNHOM L452 OXANA AR8 ECG IIU J99 BAE MSP .....
	or
	ELMUC L451 OLDEY METTA CHS VXV J89 IIU J99 BAE MSP.....
<b>SANTO DOMINGO (MDSD)</b>	
Altantic City (ACY) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J121 SIE .....
	or
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J121 SIE.....
	or
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J121 SIE.....

Terminals	Route	Effective Times (UTC)
Baltimore (BWI) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC NOTTINGHAM-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC RAVNN (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC NOTTINGHAM-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CBL ILM J40 RIC RAVNN (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC NOTTINGHAM-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 RIC RAVNN (RNAV)-STAR .....	
Bangor (BGR) .....	BESAS L464 CERDA LUCTI L454 BERGH HTO LfV J79 .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO LfV J79 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK HTO LfV .....	
Bedford (BED) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or	
	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO ORW GRAYM-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB DIW WETRO CEBEE SWL J174 HTO ORW GRAYM-STAR .....	
Boston (BOS) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J49 JFK INNDY (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK INNDY (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK NORWICH-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK NORWICH-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK INNDY (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK NORWICH-STAR .....	
Charlotte (CLT) .....	BESAS L464 CERDA L451 OLDEY CHS CHESTERFIELD-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY CHS HUSTN (RNAV)-STAR .....	

Terminals	Route	Effective Times (UTC)
	or	
	JUELE L463 NUCAR AR3 OLDEY CHS	
	CHESTERFIELD-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY CHS HUSTN	
	(RNAV)-STAR .....	
Chicago O'Hare (ORD) .....	JUELE L463 NUCAR AR3 OLDEY AR4 CH SPA HMV	
	FLM J24 BIGXX ROYKO (RNAV)-STAR .....	
Cincinnati (CVG) .....	BESAS L464 CERDA L451 OLDEY METTA CHS	
	SPA HMV JAKIE (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG FAK J24 HVQ HNN JAVIT-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA	
	HMV JAKIE (RNAV)-STAR .....	
Cleveland (CLE) .....	BESAS L464 CERDA L451 OLDEY METTA CHS	
	CAE HVQ TVT KEATN-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG HVQ TVT KEATN-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE	
	HVQ TVT KEATN-STAR .....	
Dayton (DAY) .....	BESAS L464 CERDA L451 OLDEY METTA CHS	
	CAE SPA HMV FLM KEKEE-STAR .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG FAK J24 HVQ HNN .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS CAE	
	SPA HMV FLM KEKEE-STAR .....	
Detroit (DTW) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG HNN WEEDA-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS	
	SPA HNN WEEDA-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA	
	HNN WEEDA-STAR .....	
Indianapolis (IND) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG IIIU V51 DECEE DECEE-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS	
	SPA CAE VVX J89 IIIU V51 DECEE DECEE-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA	
	CAE VVX J89 IIIU V51 DECEE DECEE-STAR .....	
Kennedy (JFK) .....	BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ CAMRN .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG ORF J121 SIE CAMRN-STAR .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW	
	WETRO CEBEE SWL J121 SIE CAMRN-STAR .....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	
La Guardia (LGA) .....	BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ CAMRN .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG HPW J191 PXT KORRY-STAR .....	

Terminals	Route	Effective Times (UTC)
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ CAMRN .	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J40 TYI HPW J191 PXT KORRY-STAR.....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J40 TYI HPW	
	J191 PXT KORRY-STAR.....	
Louisville (SDF).....	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG HCH DARBY-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY METTA CHS	
	SPA HCH DARBY-STAR .....	
	or	
	JUELE L463 NUCAR AR3 OLDEY METTA CHS SPA	
	HCH DARBY-STAR .....	
Montreal (CYMX), (CYUL).....	BESAS L464 LAMER L453 AZEZU BERGH L454	
	JFK J37 ALB J6 PLB PLATTSBURGH-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY	
	J79 JFK J37 ALB J6 PLB PLATTSBURGH-STAR ..	
Morristown (MMU).....	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG FAK JAIKE (RNAV)-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK JAIKE (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE	
	(RNAV)-STAR.....	
Newark (EWR).....	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG FAK DYLIN-STAR.....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG FAK PHLBO (RNAV)-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454	
	OWENZ CYN GXU RBV V249 METRO .....	
	or	
	BESAS L464 CERDA LUCTI L454 BERGH L454	
	OWENZ CYN GXU RBV V249 METRO .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK DYLIN-STAR.....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM	
	J109 FAK PHLBO (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK	
	DYLIN-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK	
	PHLBO (RNAV)-STAR .....	
Ottawa (CYOW) .....	BESAS L464 CERDA LUCTI L454 JFK SYR J599 ...	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454	
	JFK SYR J599 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8	
	ECG SYR J599 .....	
	or	

Terminals	Route	Effective Times (UTC)
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM SYR J599.....	
	or	
Philadelphia (PHL).....	JUELE L463 NUCAR AR3 CLB ILM SYR J599 .....	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL RADDs CEDAR LAKE-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW WETRO CEBEE SWL RADDs CEDAR LAKE-STAR or	
Providence (PVD) .....	BESAS L464 LAMER L453 AZEZU B24 SIE .....	
	BESAS L464 CERDA LUCTI L454 BERGH OWENZ HTO JORDN .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH OWENZ HTO JORDN .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SWL J174 HTO JORDN .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW SWL J174 HTO JORDN .....	
	or	
Quebec (CYQB) .....	JUELE L463 NUCAR AR3 PANAL DIW SWL J174 HTO JORDN .....	
	BESAS L464 CERDA LUCTI L454 JFK PLB J560....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK PLB J560 .....	
	or	
	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF SBY J209 VILLS SAX J6 PLB J560.....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 ....	
	or	
	JUELE L463 NUCAR AR3 PANAL DIW J174 ORF SBY J209 VILLS SAX J6 PLB J560 .....	
Raleigh/Durham (RDU) .....	BESAS L464 CERDA L451 OLDEY ILM BRADE-STAR .....	
	or	
	JUELE L463 NUCAR ILM BRADE-STAR .....	
Teterboro (TEB).....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG FAK JAIKE (RNAV)-STAR .....	
	or	
	BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....	
	or	
	BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 FAK JAIKE (RNAV)-STAR .....	
Toronto (CYYZ) .....	BESAS L464 LAMER L453 AZEZU BERGH L454 JFK J63 HUO CFB J95 BUF YOUTH (RNAV)-STAR .....	
	or	
	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 BUF YOUTH (RNAV)-STAR .....	
	or	
	JUELE L463 NUCAR AR3 CLB ILM J109 BUF YOUTH (RNAV)-STAR .....	
Washington (DCA) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC IRONS-STAR .....	

Terminals	Route	Effective Times (UTC)
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG RIC OJAAY (RNAV)-STAR.....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC IRONS-STAR.....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC IRONS-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J40 RIC OJAAY (RNAV)-STAR .....	
Washington (IAD) .....	BESAS L464 CERDA LNHOM L452 OXANA ECG FAK BARIN (RNAV)-STAR .....	
	or BESAS L464 CERDA LNHOM L452 OXANA ECG FAK COATT-STAR .....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....	
	or BESAS L464 CERDA L451 OLDEY AR3 CLB ILM J109 FAK COATT-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK BARIN (RNAV)-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM J109 FAK COATT-STAR .....	
White Plains (HPN) .....	BESAS L464 CERDA L451 OLDEY ECG ORF J121 SIE BOUNO-STAR.....	
	or JUELE L463 NUCAR AR3 PANAL DIW WETRO CEBEE SWL J121 SIE BOUNO-STAR .....	
	or BESAS L464 CERDA LUCTI L454 OWENZ .....	
	or BESAS L464 LAMER L453 AZEZU BERGH L454 OWENZ .....	
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG ORF J121 SIE BOUNO-STAR .....	
Windsor Locks (BDL) .....	BESAS L464 CERDA L451 OLDEY AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR .....	
	or BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG SBY J79 JFK DPK DPK-STAR .....	
	or JUELE L463 NUCAR AR3 CLB ILM KEMPR SBY J79 JFK DPK DPK-STAR .....	
Winnipeg (CYWG) .....	BESAS L464 CERDA LNHOM L452 OXANA AR8 ECG IJU J99 BAE MSP .....	
	or BESAS L464 CERDA L451 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP .....	
	or JUELE L463 NUCAR AR3 OLDEY METTA CHS VXV J89 IJU J99 BAE MSP .....	
<b>SARASOTA-BRADENTON AREA (SRQ)</b>		
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT-STAR.....	1100-0300
	or (GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR .....	1100-0300

Terminals	Route	Effective Times (UTC)
Charlotte (CLT).....	TAY J85 IRQ UNARM-STAR..... or (Turbojets-GPS or DME/DME-IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR.....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR..... or (non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT.....	1100-0300
Chicago O'Hare (ORD).....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ ROYKO (RNAV)-STAR..... or (non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR.....	1100-0300
Cincinnati (CVG).....	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR..... or (all others) CTY J91 VXV HARDU-STAR.....	0000-2359
Cleveland (CLE).....	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR....	
Columbus (CMH).....	PIE J119 TAY J85 HVQ HNN BREMN-STAR.....	
Dallas/Ft. Worth (DFW).....	(Water) SRQ Q100 REDFN Q105 HRV J58 AEX CQY.....	
Denver (DEN).....	(Water) Q100 REDFN Q105 HRV J58 SPS J168 LAA QUAIL-STAR.....	
Detroit/Wayne (DTW).....	PIE TAY J85 SPA HNN WEEDA-STAR.....	
Detroit Satellites: Ann Arbor (ARB), Pontiac (PTK), Willow Run (YIP).....	PIE J119 TAY J85 IRQ J99 VXV J43 FLM DQN CRUXX-STAR.....	
Young (DET).....	PIE J119 TAY J85 DJB LLEE0-STAR.....	
Fort Lauderdale (FLL).....	(all others) RSW FORTL-STAR..... or (GPS or DME/DME-IRU equipped) RSW FORTL JINGL (RNAV)-STAR.....	1030-0300
Houston (HOU).....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV COLUMBIA (RNAV)-STAR..... or (GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR..... or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR.....	
Houston (IAH).....	(GPS or DME/DME-IRU equipped) SRQ Q100 LEV WOLDE (RNAV)-STAR..... or (GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR..... or (Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR.....	
Indianapolis (IND).....	CTY J91 ATL J89 IIU DECEE-STAR.....	
La Guardia (LGA).....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY-STAR.....	
Louisville (LOU, SDF).....	CTY J91 ATL HCH DARBY-STAR.....	
Minneapolis (MSP).....	CTY J91 ATL J89 BAE EAU-STAR.....	
Nashville (BNA).....	CTY J91 ATL GQO VOLLs-STAR.....	1100-0300
Newark (EWR).....	TAY J75 CAE J51 FAK DYLIN-STAR..... or (GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)-STAR.....	1100-0300
Philadelphia (PHL).....	TAY J75 CAE J51 FAK DPNT-STAR.....	
Pittsburgh (PIT).....	TAY J75 CAE PSK J53 EKN IHD NESTO-STAR.....	
Windsor Locks (BDL).....	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR....	0700-0000
<b>SAVANNAH (SAV)</b>		
Baltimore (BWI).....	CHS J79 TYI J40 RIC OTT-STAR.....	1100-0400



Terminals	Route	Effective Times (UTC)
Philadelphia (PHL) .....	CHS J121 SWL SWL SWL034 RADDS VCN-STAR..	1100-0400
Washington Dulles (IAD) .....	J207 RDU FAK COATT-STAR	
	or	
	(GPS or DME/DME-IRU equipped J207 RDU FAK BARIN-STAR.....	
<b>TAMPA/ST PETERSBURG METRO AREA (TPA, SPG, PIE, TPF)</b>		
Atlanta (ATL) .....	SZW LGC-STAR .....	
	or	
	(RNAV only) SZW HONIE (RNAV)-STAR.....	
Baltimore (BWI) .....	TAY J75 CAE J52 RIC OTT-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC RAVNN (RNAV)-STAR .....	1100-0400
Boston (BOS) .....	TAY J75 DUNKN J210 J79 JFK ORW-STAR .....	1100-0400
Charlotte (CLT) .....	TAY J85 IRQ UNARM-STAR .....	
	or	
	(Turbojets-GPS or DME/DME IRU equipped) TAY J85 IRQ ADENA (RNAV)-STAR .....	
Chicago Midway (MDW).....	(/E/G/R/J/L/Q only) CTY J91 ATL J89 IIU OKK FISSK (RNAV)-STAR.....	1100-0300
	or	
	(non-advanced RNAV only) CTY J91 ATL J89 IIU OKK V285 CLEFT OXI CGT .....	1100-0300
Chicago O'Hare (ORD) .....	(/E/G/R/J/L/Q only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK MZZ ROYKO (RNAV)-STAR .....	0000-2359
	or	
	(non-advanced RNAV only) CTY J91 ATL CADIT GLAZR HOPAP VOSTK HEVAN MZZ MZZ344/33 OXI KNOX-STAR .....	0000-2359
Cincinnati (CVG) .....	(All Others) CTY J91 VXV HARDU-STAR .....	
	or	
	(RNAV only) CTY J91 VXV JAKIE (RNAV)-STAR .....	
Cleveland Metro (CLE) .....	PIE J119 TAY J85 TVT040 KEATN KEATN-STAR ...	
	or	
	CTY J91 HNN TVT KEATN-STAR .....	
Columbus (CMH) .....	PIE J119 TAY J85 HVQ HNN BREMN-STAR .....	
	or	
	CTY J91 HNN BREMN-STAR .....	
Denver (DEN) .....	SZW J41 MEM RZC PER GCK J154 RYLIE DANDD-STAR .....	
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA-STAR .....	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK), Young (DET) .....	CTY J91 VXV J43 FLM DQN CRUX-STAR .....	
Willow Run (YIP) .....	CTY J91 VXV J43 FLM DQN V98 VQO CRUX .....	
Windsor (CYQG) .....	PIE J119 TAY J85 DJB LLEEO-STAR .....	
Fort Lauderdale:		
Hollywood Intl (FLL), Executive (FXE), Pompano Beach (PMP), North Perry (HWO), Opa Locka (OPF) .....	(all others) RSW FORTL-STAR .....	1030-0300
	or	
	(GPS OR DME/DME-IRU equipped) SABEE RXXAN JINGL (RNAV)-STAR .....	
Fort Myers (RSW), (FMY) .....	(Turbojets-GPS or DME/DME-IRU equipped) SRQ TYNEE (RNAV)-STAR .....	
Fort Pierce (FPR) .....	VRB.....	1030-0300
Houston (HOU) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI COLUMBIA (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR.....	1000-0300

Terminals	Route	Effective Times (UTC)
Houston (IAH) .....	(GPS or DME/DME-IRU equipped) SIMMR REMIS Q100 LEV WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(GPS or DME/DME-IRU equipped) SZW J2 SJI WOLDE (RNAV)-STAR .....	1000-0300
	or	
	(Non-advanced NAV only) SZW J2 CEW J50 AEX DAS-STAR .....	1000-0300
Indianapolis (IND) .....	CTY J91 ATL J89 IU DECEE-STAR .....	
Kennedy (JFK) .....	TAY J75 J210 J121 SIE CAMRN-STAR .....	
Key West (EYW) .....	RSW J41 .....	1030-0300
La Guardia (LGA) .....	TAY J75 DUNKN J210 VAN FLO J207 RDU J55 HPW J191 PXT KORRY-STAR .....	1100-0400
Louisville (SDF) .....	CTY J91 ATL HCH DARBY-STAR .....	
Miami (MIA) .....	(all others) RSW CYY CYY-STAR .....	1030-0300
	or	
	(Turbojets-GPS or DME/DME-IRU equipped) RSW CYY SSCOT (RNAV)-STAR .....	
Minneapolis (MSP) .....	CTY J91 ATL J89 BAE EAU-STAR .....	
Nashville (BNA) .....	CTY J91 ATL GQO VOLLS-STAR .....	
Newark (EWR) .....	TAY J75 CAE J51 FAK DYLIN-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J51 FAK PHLBO (RNAV)-STAR .....	1100-0400
Philadelphia (PHL) .....	TAY J75 CAE J51 FAK DPNT-STAR .....	1100-0400
Pittsburgh (PIT) .....	TAY J75 CAE PSK EKN IHD NESTO-STAR .....	
Raleigh-Durham (RDU) .....	TAY J75 CAE BUZZY-STAR .....	
Washington Dulles (IAD) .....	TAY J75 CAE J51 FAK COATT-STAR .....	1100-0400
Washington Natl (DCA) .....	TAY J75 CAE J52 RIC IRONS-STAR .....	1100-0400
	or	
	(GPS or DME/DME-IRU equipped) TAY J75 CAE J52 RIC OJAAY (RNAV)-STAR .....	1100-0400
West Palm Beach (PBI) .....	(Turbojets-GPS or DME/DME-IRU equipped) SABEE JOOOE WLACE (RNAV)-STAR .....	
Windsor Locks (BDL) .....	TAY J75 DUNKN J210 J79 JFK DPK DPK-STAR ....	0700-0000
From St Petersburg (PIE) only:		
Detroit/Wayne (DTW) .....	TAY J85 SPA HNN WEEDA-STAR	
Detroit Satellites:		
Ann Arbor (ARB), Pontiac (PTK) Willow		
Run (YIP) .....	CTY J91 VXV J43 FLM DQN CRUX-STAR .....	
Windsor (CYQG), Young (DET) .....	PIE J119 TAY J85 DJB LLEE0-STAR .....	

# **PREFERRED IFR ROUTES** **SPECIAL HIGH ALTITUDE ARRIVAL ROUTES** **FOR ATLANTA HARTSFIELD INTL ARPT** **(JETS AND TURBOPROPS)**

**NORTHEAST**

Traffic originating North and East of J186 to North of a line from ATL to RDU file:

..... MOL WHINZ-STAR .....

or

..... MOL FLCON (RNAV)-STAR .....

..... J145 ODF WHINZ-STAR .....

or

..... J145 ODF FLCON (RNAV)-STAR .....

..... VXV WHINZ-STAR .....

or

..... VXV FLCON (RNAV)-STAR .....

..... J186 ODF WHINZ-STAR .....

or

..... J186 ODF FLCON (RNAV)-STAR .....

..... SPA ODF WHINZ-STAR .....

or

..... SPA ODF FLCON (RNAV)-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

..... IRQ SINCA-STAR .....

or

..... IRQ CANUK (RNAV)-STAR .....

..... DBN SINCA-STAR .....

or

..... DBN CANUK (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

..... MEI LGC-STAR .....

or

..... MEI HONIE (RNAV)-STAR .....

..... SZW LGC-STAR .....

or

..... SZW HONIE (RNAV)-STAR .....

..... MGM LGG-STAR .....

or

..... MGM HONIE (RNAV)-STAR .....

**NORTHWEST**

Traffic originating West and North of J43 to North of J14 file:

..... BWG RMG-STAR .....

or

..... BWG ERLIN (RNAV)-STAR .....

..... BNA RMG-STAR .....

or

..... BNA ERLIN (RNAV)-STAR .....

..... MEM RMG-STAR .....

or

..... MEM ERLIN (RNAV)-STAR .....

## PREFERRED IFR ROUTES

### SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR ATLANTA TERMINAL AREA AIRPORTS (SATELLITE AIRPORTS ONLY JETS AND TURBOPROPS)

**NORTHEAST**

Traffic originating North and East of a line from ATL to VXV to North of a line from ATL to RDU file:

.....	J48 ODF AWSON-STAR .....
.....	J145 ODF AWSON-STAR .....
.....	VXV AWSON-STAR .....
.....	J186 ODF AWSON-STAR .....
.....	SPA ODF AWSON-STAR .....

**SOUTHEAST**

Traffic originating South of a line from ATL to RDU, to East of J89 file:

.....	IRQ TRBOW-STAR .....
.....	DBN TRBOW-STAR .....

**SOUTHWEST**

Traffic originating West of J89 to South and West of J14 file:

.....	MEI LGC MIKEE-STAR .....
.....	SZW LGC MIKEE-STAR .....
.....	MGM LGC MIKEE-STAR .....

**NORTHWEST**

Traffic originating West and North of a line from ATL to VXV to North of J14 file:

.....	GQO BUNNI-STAR .....
.....	RQZ BUNNI-STAR .....

### SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR CHARLOTTE TERMINAL AREA

**NORTHEAST**

Traffic originating North and East of J53 to North of a line from CLT to RDU file:

.....	LYH MAJIC-STAR .....
.....	RDU SUDSY (RNAV)-STAR .....
.....	ROA MAJIC-STAR .....

**SOUTHEAST**

Traffic originating South of a line from CLT to RDU to South and East of J51 file:

.....	FLO CTF-STAR .....
.....	FLO HUSTN (RNAV)-STAR .....

**SOUTHWEST**

Traffic originating West of J51 to South of J118 file:

.....	ATL ADENA (RNAV)-STAR .....
.....	ATL UNARM-STAR .....
.....	IRQ ADENA (RNAV)-STAR .....
.....	IRQ UNARM-STAR .....

**NORTHWEST**

Traffic originating West of J53 to North of J118 file:

.....	VXV SHINE-STAR .....
.....	HMV SHINE-STAR .....

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE ARRIVAL ROUTES FOR MEMPHIS TERMINAL AREA

451

### NORTHEAST

Traffic entering Memphis ARTCC north of J118:

.....	BNA WILDER-STAR .....
.....	BWG WILDER-STAR .....
.....	PXV WILDER-STAR .....

### NORTHWEST

Traffic entering Memphis ARTCC on or west of J35:

.....	FAM GQE-STAR .....	
.....	ARG GQE-STAR .....	
.....	SGF ARG GQE-STAR .....	
.....	RZC GQE-STAR .....	
.....	FSM GQE-STAR .....	1100-0200

### SOUTHEAST

Traffic entering Memphis ARTCC south of J118:

.....	VUZ HLI-STAR (MONDAY-FRIDAY) .....	
.....	GQO HLI-STAR .....	1100-0200

### SOUTHWEST

Traffic entering Memphis ARTCC on or south of J6:

.....	LIT MARVELL-STAR .....	
.....	TXK MARVELL-STAR .....	
.....	ELD MARVELL-STAR .....	
.....	SQS MARVELL-STAR .....	1100-0200

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

Terminals	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for northbound Caribbean flights originating from Santo Domingo UIR (MDCS) to:		
FLL.....	(Advanced RNAV equipped) JUELE L463	
	BTLER A555 ZQA 054V CAREY DEKAL	
	WAVUN (RNAV)-STAR .....	
	or	
	JUELE L463 BTLER A555 ZQA 054V CAREY	
	DEKAL DEKAL-STAR .....	
	or	
(Advanced RNAV equipped) RETAK A636 ZIN		
A315 HODGY ZQA 054V CAREY DEKAL		
WAVUN(RNAV)-STAR.....		
	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V	
	CAREY DEKAL DEKAL-STAR .....	
MIA .....	(Advanced RNAV equipped) JUELE L463	
	BTLER A555 ZQA FLIPR (RNAV)-STAR .....	
	or	
	JUELE L463 BTLER A555 ZQA FOWEE -STAR	
	or	
	(Advanced RNAV equipped) RETAK A636 ZIN	
	A315 HODGY FLIPR(RNAV)- STAR .....	
	or	
	RETAK A636 ZIN A315 HODGY FOWEE-STAR	
PBI .....	JUELE L463 BTLER A555 ZQA 054V PBI.....	
	or	
	RETAK A636 ZIN A315 HODGY ZQA 054V.....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic overflying Atlanta Center originating north and east of a line from TYS to LAL (except DAY and CVG) for ZTL to MCO:		
.....	PSK CAE SAV OMN BITHO-STAR .....	1100-0400
.....	or	
.....	J83 SPA CAE SAV OMN BITHO-STAR .....	1100-0400
.....	or	
.....	(GPS or DME/DME-equipped) PSK CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
.....	or	
.....	(GPS or DME/DME-IRU equipped) J83 SPA CAE SAV OMN CWRLD (RNAV)-STAR .....	1100-0400
Traffic overflying Atlanta Center Eastbound originating South of a line from DFW to JFK:		
BDL .....	GRD J209 RDU J207 FKN J79 JFK DPK DPK-STAR .....	
BOS .....	(Turbojet only) GRD J209 RDU J207 FKN J79 JFK ORW-STAR .....	
	or	
	(Turboprop only) SIE J121 HTO V308 ORW V16 WOONS .....	
BWI .....	SPA J14 RIC OTT-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 RIC RAVNN (RNAV)-STAR .....	
DCA .....	SPA J14 RIC IRONS-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 RIC OJAAY (RNAV)-STAR .....	
EWR .....	SPA J14 J15 FAK DYLIN-STAR .....	
	or	
	(GPS or DME/DME-IRU equipped) SPA J14 J51 FAK PHLBO (RNAV)-STAR .....	
IAD .....	SPA J14 J51 FAK COATT-STARR .....	
JFK .....	GRD J209 ORF J121 SIE CAMRN-STAR .....	
LGA .....	AHN J208 HPW J191 PXT KORRY-STAR .....	
PHL .....	SPA J14 J51 FAK DPNT-STAR .....	
Northbound from over VXV with destination of CMH:		
.....	VXV J91 HNN BREMN-STAR .....	
Traffic overflying Atlanta Center Northbound from over SPA to CMH:		
.....	SPA J85 HVQ HNN BREMN-STAR .....	
Traffic overflying Atlanta Center Northbound from over PSK to CMH:		
.....	PSK HVQ HNN BREMN-STAR .....	
Traffic overflying Atlanta Center Southbound originating North and East of line from VXV to LAL (except DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI, RSW, SRQ and TPA file:		
.....	PSK CAE .....	1100-0300
.....	or	
.....	J83 SPA J85 AMG .....	1100-0300
Traffic overflying Atlanta Center Southbound originating North and East of a line from VXV to LAL (with DAY and CVG) with destinations of FLL, FMY, MCO, MIA, PBI and RSW file:		
.....	VXV J91 ATL OTK .....	1100-0300
.....	or	
.....	BNA J73 SZW .....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300
.....	or	
.....	BNA J73 SZW .....	1100-0300
.....	or	
.....	MGM J20 SZW .....	1100-0300

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

453

	Route	Effective Times (UTC)
Traffic originating South of Wilmington VORTAC (ILM):		
EWR .....	ILM J109 FAK DYLIN-STAR .....	1100-0300
	or	
	(GPS or DME/DME.IRU equipped) ILM J109	
FRG .....	FAK PHLBO (RNAV)-STAR .....	1100-0300
	(Water-Turbojets) WOLFO AR18 DIW WETRO	
JFK .....	CEBEE SWL J121 SIE CAMRN-STAR .....	
	(Water-Turbojets) WOLFO AR18 DIW WETRO	
	CEBEE SWL J121 SIE CAMRN-STAR .....	1100-0300
LGA .....	ILM TYI HPW J191 PXT KORRY-STAR .....	1100-0300
Traffic overflying Ormond Beach VORTAC (OMN) destined MIA:		
OMN .....	OMN J79 VRB HEATT-STAR .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to La Romana (MDLR) and Nagua (MDCY):		
ZMA .....	LETON L450 GTK ASIVO .....	
	or	
	LNHOM L452 GTK ASIVO .....	
	or	
	LAMER L464 CERDA L453 ASIVO .....	
	or	
	MLLER M594 CERDA L459 ASIVO .....	
	or	
	NUCAR L463 RNDLY ASIVO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Puerto Plata (MDPP):		
ZMA .....	LETON L450 SEKAR A554 PTA .....	
	or	
	LNHOM L452 GTK A554 PTA .....	
	or	
	LAMER L453 MACKI B891 PTA .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	MACKI B891 PTA .....	
	or	
	MLLER M594 CERDA L453 MACKI B891	
	PTA .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 PTA .....	
	or	
	WATRS M596 PTA .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Santo Domingo (MDSD):		
ZMA .....	LETON L450 SEKAR A554 CDO .....	
	or	
	LNHOM L452 GTK L450 SEKAR A554 CDO...	
	or	
	LAMER L453 ASIVO CDO .....	
	or	
	LUCTI L454 MNDEZ M594 CERDA L453	
	ASIVO CDO .....	
	or	
	MLLER M594 CERDA L453 ASIVO CDO .....	
	or	
	NUCAR L463 RNDLY SEKAR A554 CDO .....	

# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Port au Prince (MTPP):	
ZMA .....	LETON L450 GTK G444 OBN .....	
	or	
	LNHOM L452 GTK G444 OBN .....	
	or	
	LAMER L464 CERDA M594 GTK G444 OBN .	
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Saint Johns Island (TAPA):	
ZMA .....	LETON L451 ELMUC L451 ANU .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451	
	ANU.....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 ANU	
	.....	
	or	
	LUCTI L454 ELMUC L451 ANU .....	
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Bridgetown (TBPB):	
ZMA .....	LETON L451 ELMUC L454 ILURI A555 BGI ...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	ILURI A555 BGI.....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	ILURI A555 BGI.....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 BGI ....	
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Fort de France (TFFF):	
ZMA .....	LETON L451 ELMUC L454 ILURI A555 FOF...	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	ILURI A555 FOF .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	ILURI A555 FOF .....	
	or	
	LUCTI L454 ELMUC L454 ILURI A555 FOF....	
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Grand Case (TFFG) and Saint	
Barthelemy (TFFJ) and Oranjestad–Roosevelt (TNCE) and Sanit Maarten (TNCM) and The Valley (TQPF):		
ZMA .....	LETON L451 ELMUC L451 PJM .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L451 PJM	
	.....	
	or	
	LAMER L453 CERDA L451 ELMUC L451 PJM	
	.....	
	or	
	LUCTI L454 ELMUC L451 PJM .....	
Traffic entering Miami Center (ZMA) for southbound	Caribbean flights on L452/L453/L454 to Point a Pitre (TFFR):	
ZMA .....	LETON L451 ELMUC L454 LEE00 MODUX	
	R888 PPR .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	LEE00 MODUX R888 PPR .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	LEE00 MODUX R888 PPR .....	
	or	
	LUCTI L454 ELMUC L454 LEE00 MODUX	
	R888 PPR .....	



# PREFERRED IFR ROUTES

## SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES

455

	Route	Effective Times (UTC)
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Thomas Virgin Islands (TIST):		
ZMA .....	LETON L451 ELMUC L454 PANMO JETSS .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO JETSS .....	
	or	
	LUCTI L454 ELMUC L454 PANMO JETSS .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Saint Croix Virgin Islands (TISX):		
ZMA .....	LETON L451 ELMUC L454 PANMO COY .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454	
	PANMO COY .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454	
	PANMO COY .....	
	or	
	LUCTI L454 ELMUC L454 PANMO COY .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Aguadilla (TJBQ):		
ZMA .....	LETON L451 ELMUC BQN .....	
	or	
	LNHOM L452 JORGG L451 ELMUC BQN .....	
	or	
	LAMER L453 CERDA L451 ELMUC BQN .....	
	or	
	LUCTI L454 ELMUC BQN .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJIG):		
ZMA .....	LETON L451 ELMUC IDAHO BEANO .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO	
	BEANO .....	
	or	
	LUCTI L454 ELMUC IDAHO BEANO .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Mayaguez (TJMZ):		
ZMA .....	LETON L451 ELMUC MAZ .....	
	or	
	LNHOM L452 JORGG L451 ELMUC MAZ .....	
	or	
	LAMER L453 CERDA L451 ELMUC MAZ .....	
	or	
	LUCTI L454 ELMUC MAZ .....	

# **PREFERRED IFR ROUTES** **SPECIAL HIGH ALTITUDE DIRECTIONAL ROUTES**

	<b>Route</b>	<b>Effective Times (UTC)</b>
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Ponce (TJPS):		
ZMA .....	LETON L451 ELMUC PSE.....	
	or	
	LNHOM L452 JORGG L451 ELMUC PSE .....	
	or	
	LAMER L453 CERDA L451 ELMUC PSE .....	
	or	
	LUCTI L454 ELMUC PSE.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to San Juan (TJSJ):		
ZMA .....	LETON L451 ELMUC IDAHO R006 .....	
	or	
	LNHOM L452 JORGG L451 ELMUC IDAHO R006 .....	
	or	
	LAMER L453 CERDA L451 ELMUC IDAHO R006 .....	
	or	
	LUCTI L454 ELMUC IDAHO R006.....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Golden Rock (TKPK) and Charlestown (TKPN):		
ZMA .....	LETON L451 ELMUC L454 LEE00 DANDE G633 SKB .....	
	or	
	LNHOM L452 JORGG L451 ELMUC L454 LEE00 DANDE G633 SKB .....	
	or	
	LAMER L453 CERDA L451 ELMUC L454 LEE00 DANDE G633 SKB .....	
	or	
	LUCTI L454 ELMUC L454 LEE00 DANDE G633 SKB .....	
Traffic entering Miami Center (ZMA) for southbound Caribbean flights on L452/L453/L454 to Crown Point (TTCP) and Port of Spain (TTPP):		
ZMA .....	LETON L451 ELMUC G431 DDP G449 POS...	
	or	
	LNHOM L452 JORGG L451 ELMUC G431 DDP G449 POS .....	
	or	
	LAMER L453 CERDA L451 ELMUC G431 DDP G449 POS .....	
	or	
	LUCTI L454 ELMUC G431 DDP G449 POS....	
	or	
	GTK L452 ANADA G449 POS .....	

# PREFERRED IFR ROUTES

## HIGH ALTITUDE—SINGLE DIRECTION ROUTES

457

Airway	Segment Fixes	Direction Effective	Effective Times (UTC)
J14 .....	Greensboro, NC to Richmond, VA .....	Northeast	1100-0300
J37 .....	Coyle, NJ to Spartanburg, SC .....	Southwest	1100-0300
J40 .....	Wilmington, NC to Richmond, VA .....	North	1100-0300
J48 .....	Pottstown, PA to Foothills, GA .....	Southwest	1100-0300
J51 .....	Columbia, SC to Yardley, NJ .....	Northeast	1100-0300
J52 .....	Columbia, SC to Richmond, VA .....	Northeast	1100-0300
J55 .....	Florence, SC to HUBBS Int., VA .....	Northeast	1100-0300
J75 .....	Modena, PA to Greensboro, NC .....	Southwest	1100-0300
J89 .....	Atlanta, GA to HITR Int, FL .....	South	1100-0300
J91 .....	Cross City, FL to Atlanta, GA .....	North	1100-0300
J109 .....	Wilmington, NC to Buffalo, NY .....	North	1100-0300
J165 .....	Charleston, SC to Richmond, VA .....	North	1100-0300
J191 .....	Wilmington, NC to Robbinsville, NJ .....	North	1100-0300
J193 .....	HUBBS Int., VA to Wilmington, NC .....	South	1100-0300
J207 .....	Florence, SC to Franklin, VA .....	Northeast	1100-0300
J208 .....	Athens, GA to Hopewell, VA .....	Northeast	1100-0300
J209 .....	Greenwood, SC to Norfolk, VA .....	Northeast	1100-0300

## Q-ROUTES

### GULF OF MEXICO "Q ROUTES"

These area navigation routes extend more than 12 miles off shore in airspace controlled by the Federal Aviation Administration (FAA). Additional regulatory information for these routes can be found in the Notices to Airmen Publication, Part 3, International Notices to Airmen.

These routes have a Minimum Obstruction Clearance Altitude (MOCA) of 1500 feet (MSL). The Minimum Enroute Altitude (MEA) for these routes is 6000 feet (MSL).

**Q100**

LEV VORTAC

REDFN N28°52.98' / W088°42.11'

ROZZI N28°18.87' / W086°42.31'

REMIS N27°53.04' / W085°15.47'

SRQ VORTAC

**Q102**

LEZ VORTAC

BLVNS N28°22.94' / W088°02.05'

BUNNZ N28°00.58' / W086°45.76'

BACCA N27°35.51' / W085°20.66'

CIGAR N27°29.61' / W084°46.99'

BAGGS N27°08.06' / W082°50.45'

CYY VORTAC

**Q105**

HRV VORTAC

FATSO N29°41.40' / W089°47.08'

REDFN N28°52.98' / W088°42.11'

BLVNS N28°22.94' / W088°02.05'

### Q-ROUTES REGULATORY

**Q1, Q3, Q5, Q7, Q9 and Q11 are preferred single direction (Southbound) Q routes; flight planning Northbound not authorized.**

Q routes are RNAV routes that require the use of GNSS or DME/DME/IRU RNAV, unless otherwise indicated. Please note that this section does not apply to Q routes in the Gulf of Mexico. Gulf of Mexico Q routes are explained in the Southeast and South Central A/FD volumes. Q routes listed in this A/FD volume have at least part of one of their leg segments within this volume's area of coverage.

GNSS and DME/DME/IRU RNAV operations are authorized along Q routes at FL 180 and above. GNSS and DME/DME/IRU RNAV MEAs will only be published if above FL 180.

DME facilities that have been assessed for RNAV operations are listed below. Q routes with no DME facilities listed are limited to GNSS RNAV operations only. Those routes will have an enroute chart note "GNSS REQUIRED".

Route	Segment	DME
<b>Q1</b>	ELMAA-ERAVE	BTG, OLM, HQM, HUH, UBG
	ERAVE-EASON	BTG, OLM, HQM, HUH, LTJ, CVO, DSD, OED, UBG, ONP, EUG
	EASON-EBINY	CVO, DSD, OED, BTG, UBG, ONP, EUG, LMT
	EBINY-ENVIE	CVO, OED, EUG, LMT, RBL, ENI, ONP, FJS
	ENVIE-ETCHY	OED, PYE, OAK, LIN, ECA, LMT, RBL, ENI, SAC, FJS
	ETCHY-POINT REYES	LIN, ECA, RBL, ENI, SAC, OAK
<b>Q2</b>	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-HOBOL	BZA, GBN, BLH, EED, PXR, IPL, TFD, DRK, TUS
	HOBOL-ITUCO	TFD, GBN, BLH, PXR, TUS, CIE, SSO
	ITUCO-NEWMAN	EWM, TFD, PXR, CIE, SSO, TUS, TCS
<b>Q3</b>	FEPTOT-FAMUK	OLM, TOU, HQM, CVO, BTG, DSD, LTJ, UBG, ONP, EUG
	FAMUK-FRFLY	BTG, DSD, OED, CVO, EUG, ONP, UBG, RBL, LMT
	FRFLY-FINER	OED, EUG, RBL, LMT, ENI, CVO, FJS
	FINER-FOWND	OED, PYE, ECA, LIN, OAK, ENI, RBL, LMT, SAC, FJS
<b>Q4</b>	FOWND-POINT REYES	LIN, ECA, PYE, RBL, SAC, ENI
	BOILE-HEDVI	HEC, PDZ, OCN, PMD, LAX, RZS, IPL, TRM, PKE, BLH, EED, BZA, GBN, PXR
	HEDVI-SCOLE	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SCOLE-SPTFR	EED, BLH, BZA, GBN, TRM, IPL, TFD
	SPTFR-ZEBOL	EED, IPL, BZA, GBN, TFD, PXR, BLH
	ZEBOL-SKTTR	PXR, BLH, BZA, GBN, TFD, TUS, SSO, CIE, SVC, TCS
	SKTTR-EL PASO	EWM, CUS, SVC, TCS, SSO, CIE, ELP, DMN, CME

Route	Segment	DME
Q5	HAROB-HISKU	OLM, ONP, CVO, EUG, HQM, UBG, BTG, LTJ, DSD, HUH
	HISKU-HARPR	ONP, CVO, EUG, LTJ, DSD, UBG, BTG, RBL, OED, LMT, FJS, LKV
	HARPR-HOMEG	CVO, EUG, OED, RBL, LMT, ENI, FJS, LKV
	HOMEG-HUPTU	SAC, PYE, LIN, OAK, ECA, LMT, RBL, ENI, OED, FJS
Q7	HUPTU-STIKM	OAK, ECA, PYE, LIN, SAC, ENI, RBL
	JINMO-JOGEN	CVO, HQM, LTJ, UBG, BTG, ONP, IMB, EUG, OLM, DSD, YKM, PDT, SEA
	JOGEN-JUNEJ	LTJ, IMB, UBG, EUG, CVO, RBL, LMT, FMG, DSD, LKV, OED, BTG
	JUNEJ-JAGWA	RBL, LMT, FMG, LIN, SAC, ECA, ENI, MOD, SWR, OAK, LKV, CZQ, AVE, SNS
Q9	JAGWA-AVENAL	OAK, MOD, ECA, EHF, PRB, AVE, SNS, CZQ
	SUMMA-SMIGE	OLM, UBG, SEA, YKM, BTG, ONP, IMB, HQM, PDT, EUG, LTJ, CVO, DSD, OED, EPH, MWH
	SMIGE-SUNBE	IMB, UBG, EUG, IMB, RBL, LMT, FMG, SAC, OED, CVO, LKV, DSD, BTG
	SUNBE-REBRG	RBL, LMT, FMG, SAC, ECA, MVA, CZQ, OAK, EHF, PMD, LKV, LIN, MOD, AVE, OED, SWR
Q11	REBRG-DERBB	CZQ, PMD, EHF, LAX, RZS, AVE, MOD, ECA
	PAAGE-PAWLI	EPH, UBG, CVO, EUG, HQM, YKM, OLM, PDT, BTG, ONP, IMB, LTJ, DSD, LKV, OED, SEA
	PAWLI-PITVE	EUG, FMG, SAC, IMB, LKV, OED, DSD, RBL, LMT, CVO, REO
	PITVE-PUSHH	FMG, SAC, LIN, SWR, MOD, OAL, RBL, LKV, LMT, MVA, CZQ
Q13	PUSHH-LOS ANGELES	SAC, ECA, FMG, LIN, OAL, MOD, EHF, LAX, PMD, PDZ, HEC, OCN, CZQ, AVE, RZS
	All segments	None; GNSS required
	All segments	None; GNSS required
	PLESS-NASHVILLE	ENL, GQO, PXV, BNA, IIU, FAM, BWG, CSX
Q15	CORONA-HONDS	CNX, ABQ, ACH, ONM, TXO, LVS, TCC, CME
	HONDS-UNNOS	CNX, INK, CME, TXO, TCC
	UNNOS-FUSCO	FST, ACH, INK, CME, SJT, TXO, TCC
	FUSCO-JUNCTION	ABI, CWK, CSI, INK, LZZ, JCT, SJT, STV, FST
Q21	JONEZ-RAZORBACK	BYP, EOS, TUL, TXK, ADM, RZC, OKM
	GUSTI-OYSTY	AEX, DAS, MCB, LLA, BTR, LCH, HRV, LFT, LEV
	OYSTY-ACMES	RQR, GCV, MCB, BTR, PCU, GPT, HRV, LEV, SJI
	ACMES-CATLN	SJI, MGM, MCB, BFM, GPT, GCV, HRV, CEW, MVC, PCU, MEI
Q23	FORT SMITH-RAZORBACK	OKM, RZC, EOS, TUL
	LAKE CHARLES-BATON ROUGE	AEX, DAS, LCH, MCB, LFT, BTR
	BATON ROUGE-IRUBE	AEX, LEV, MCB, LCH, RQR, HRV, BTR, GCV, MCB, PCU, SJI, LBY
	IRUBE-PAYTN	GCV, MCB, JYU, PCU, MEI, HRV, CEW, SJI
Q25	MEEOW-WALNUT RIDGE	ELD, MEM, LIT, FAM, RZC
	WALNUT RIDGE-WLSUN	MEM, STL, BWG, PXV, ENL, FAM, ARG, BNA, CSX, TTH
	WLSUN-POCKET CITY	BWG, PXV, ENL, BNA, TTH
	WALNUT RIDGE-DEVAC	LIT, JKS, GQO, MEM, BNA, FAM, ARG, DYR, VUZ, RMG
Q26	FORT SMITH-ZALDA	OKM, SGF, RZC, EOS, TUL
	GRAZN-PYRMD	EIC, LIT, ELD, OKM, TXK
	PYRMD-HAKAT	ARG, LIT, FAM, ELD, SGF, RZC, MEM, TXK
	HAKAT-ESTEE	ARG, LIT, FAM, SGF, MEM
Q29	ESTEE-POCKET CITY	ARG, CSX, FAM, PXV, ENL, MEM, STL, BWG, TTH, BNA
	HARES-MEMPHIS	MEM, ARG, LIT, JAN, ELD, SQS
	MEMPHIS-SIDAE	MEM, PXV, BNA, BWG, ARG, ENL
	SIDAE-POCKET CITY	PXV, TTH, BWG, ENL
Q30	SIDON-VULCAN	GLH, MEM, VUZ, JAN, JYU, MEI, MGM, SQS, RMG
	DHART-JODOX	SQS, LIT, TXK
	JODOX-MARVELL	SQS, LIT, ELD, MEM, ARG
	MARVELL-TIIDE	ARG, BWG, PXV, FAM, LIT, MEM, ENL, TTH
Q32	TIIDE-POCKET CITY	BWG, PXV, ENL, TTH
	EL DORADO-GAGLE	AEX, JAN, MEM, SQS, SWB, ELD, LIT, TXK
	GAGLE-CRAMM	JAN, SQS, MEM, ARG, VUZ, BNA, LIT
	CRAMM-NASHVILLE	BWG, MEM, VUZ, BNA, GQO
Q33	NASHVILLE-SWAPP	BWG, IIU, PXV, VXV, BNA, GQO
	DHART-LITTLE ROCK	AEX, ELD, LIT, TXK, SWB, ARG, MEM, SQS
	LITTLE ROCK-PROWL	ELD, SGF, FAM, LIT, ARG, MEM, RZC, CSX, STL
	TEXARKANA-MATIE	LIT, SWB, TXK, BYP, EIC, ELD, SQS
Q34	MATIE-MEMPHIS	LIT, ARG, MEM, ELD, SQS
	MEMPHIS-SWAPP	BWG, ARG, MEM, MKL, SQS, PXV, BNA, GQO, IIU, VXV
	KIMBERLY-NEERO	LTJ, PDT, DSD, IMB, LKV, BOI, REO, BAM, SDO
	NEERO-WINEN	BQU, SDO, BAM, REO, BVL, ILC, DTA, ELY, CDC, MLF, BCE
Q35	WINEN-CORKR	CDC, BCE, BLD, ILC, MLF, TBC, PGS, INW, DRK
	CORKR-DRAKE	TBC, BCE, BLD, DRK, PGS, FLG, GCN, INW, TFD

Route	Segment	DME
Q36	RAZORBACK-TWITS	RZC, MEM, SGF, BUM, TUL, EOS, FAM, ARG, LIT
	TWITS-DEPEC	MEM, GQO, BNA, BWG, FAM, ARG, PXV, IUI
	DEPEC-NASHVILLE	GQO, BWG, BNA, PXV, IUI
	NASHVILLE-SWAPP	VXV, BWG, BNA, GQO, PXV, IUI
Q38	ROKIT-INCIN	DAS, LCH, SWB, IAH, LFK, HUB, AEX
	INCIN-LAREY	JAN, MCB, SWB, AEX
Q40	LAREY-BESOM	JAN, JYU, MEI, SQS, VUZ
	ALEXANDRIA-DOOMS	AEX, SWB, LCH, JAN, HEZ, MCB
	DOOMS-WINAP	JAN, SQS, MEI, MCB
Q42	WINAP-MISLE	MEI, VUZ, JYU
	KIRKSVILLE-STRUK	CID, IOW, UIN, LMN, IRK, BDF, STL, DEC, ENL, CSX
	STRUK-DANVILLE	ENL, IOW, UIN, BDF, DEC, STL, CSX, SPI, TTH, BVT, JOT, VHP, OXI, ENL, OKK, OBK, GIJ, FWA, GSH, IRK
	DANVILLE-MUNCIE	GIJ, SPI, BDF, OBK, OKK, VHP, BVT, DEC, GSH, FWA, JOT, TTH, OXI, ROD, FLM
Q104	MUNCIE-HIDON	FLM, VHP, GSH, TTH, GIJ, OKK, FWA, ROD, OXI, CRL, GSH, APE, DJB, DXO, HNN, AIR, HVQ, CXR, EWC
	HIDON-BUBAA	AIR, APE, HNN, CXR, HVQ, EWC, DJB
	BUBAA-PSYKO	AIR, APE, DJB, CXR, HNN, EWC, SLT, CSN, JHW, ETG, PSB
	PSYKO-BRNAN	PSB, JHW, EWC, AIR, ETG, CSN, EMI, SLT
	BRNAN-MAALS	EMI, SLT, CSN, EWC, PSB, ETG, SAX, RBV, HNK, HUO, SIE
	MAALS-SUZIE	ETG, EMI, CSN, HUO, SIE, JFK, PSB, SLT, HNK
	SUZIE-EAST TEXAS	JFK, EMI, PSB, SLT, HNK, SIE, RBV, SAX, HUO, CYN
	EAST TEXAS-ELIOT	HUO, RBV, EMI, CYN, SAX, JFK, PSB, HNK
	DEFUN-HEVVN	PIE, PZD, CRG, SZW, TAY, JYU, CEW, MGM, OTK, CRG
	HEVVN-PLYER	PIE, ORL, OMN, SRQ, TAY, LAL, CRG, SZW, PZD
	PLYER-SWABE	PIE, ORL, OMN, SRQ, TAY
	SWABE-ST PETERSBURG	LAL, ORL, OMN, SRQ, PHK, PIE
	ST PETERSBURG-CYPRESS	PHK, PBI, SRQ, PIE, VRB, ORL, FLL, LAL, OMN
Q106	SMELZ-BULZI	LAL, ORL, OMN, PHK, PIE, CRG, VRB, TAY, OTK, PZD, AMG, SZW
	BULZI-DRABK	AMG, PZD, TAY, CRG, SZW, MGM, OTK, JYU, CEW, SJI
Q108	DRABK-GADAY	MGM, PZD, OTK, JYU, SZW, CEW, SJI
	GADAY-CLAWZ	MGM, SJI, CEW, JYU, PZD, OTK, MCN, SZW, LGC, TAY, AMG
Q110	THNOR-JAYMC	SRQ, VRB, PHK, PIE, LAL, VKZ, ORL, PBI
	JAYMC-RVERO	VKZ, VRB, PHK, PIE, LAL, SRQ, ORL, OMN, PBI, DHP
	RVERO-KPASA	OMN, PIE, PBI, SRQ, ORL, LAL
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
Q112	BRUTS-GULFR	OMN, AMG, CRG, SZW, PIE, TAY, PZD, OTK
	GULFR-FEONA	TAY, MCN, PZD, CRG, OTK, SZW, AMG, MCN, ATL, MGM
	DEFUN-HEVVN	PIE, OTK, CRG, OMN, LAL, SZW, SRQ, ORL, VRB
	HEVVN-INPIN	JYU, PZD, CEW, SZW, MGM, OTK, TAY, AMG, PIE, CRG
Q116	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
	BRUTS-GULFR	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK
Q118	GULFR-CEEYA	MCN, AMG, PZD, OTK, SZW, TAY
	KPASA-BRUTS	SRQ, VRB, ORL, PHK, TAY, PIE, OMN, OTK, LAL, CRG, SZW, AMG
Q501	BRUTS-LENIE	OMN, AMG, CRG, TAY, LAL, PZD, SZW, OTK, MCN
	VIXIS-GOPHER	ECK, FNT, APN, SSM, GRR, MBL, SAW, BAE, MNM, DLL, AUW, ODI, STE, FGT, EAU, DLH, GEP, BRD, MCW, MSP, ASP, TVC, GRB, RWF
Q502	GOPHER-SOBME	FGT, BRD, MCW, GEP, ABR, FAR, DLH, ODI, RWF, FSD
	KENPA-GOPHER	SSM, FNT, ECK, APN, SAW, GRB, BAE, DLL, AUW, ODI, FGT, DLH, EAU, MCW, MSP, MNM, ASP, TVC, GEP, RWF, BRD
Q504	GOPHER-SOBME	FGT, DLH, ODI, MCW, ABR, FAR, MSP, GEP, RWF, FSD, BRD
	NOTAP-CESNA	SSM, ECK, APN, GLR, PLN, ISQ, MNM, DLL, RHI, DLH, GEP, FGT, ODI, ASP, TVC, SAW, GRB, BRD
Q505	CESNA-HEMDI	ODI, GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, DLL, BRD
	OMAGA-RIMBE	SSM, TVC, ASP, SAW, GRB
	RIMBE-CESNA	SSM, RHI, DLL, DLH, GEP, FGT, TVC, SAW, GRB, BRD, ODI
	CESNA-HEMDI	GEP, DLH, FGT, RWF, FAR, AXN, FSD, ABR, BRD, ODI, GRB

\*Denotes Critical DME Facility

**RNAV Routing Pitch and Catch Points**

The purpose of this section of the Special High Altitude Routes is to present user routing options for flight within the initial HAR Phase I expansion airspace. Users are able to fly user-preferred routes, referred to as non-restrictive routing (NRR), between specific fixes described by **pitch** (entry into) and **catch** (exit out of) fixes in the HAR airspace. Pitch points indicate an end of departure procedures, preferred IFR routings, or other established routing programs where a flight can begin a segment of NRR. The catch point indicates where a flight ends a segment of NRR and joins published arrival procedures, preferred IFR routing, or other established routing programs.

The HAR Phase I expansion airspace is defined as that airspace at and above FL 350 in fourteen of the western and southern Air Route Traffic Control Centers (ARTCCs). The airspace includes Minneapolis (ZMP), Chicago (ZAU), Kansas City (ZKC), Denver (ZDV), Salt Lake City (ZLC), Oakland (ZOA), Seattle Centers (ZSE), Los Angeles (ZLA), Albuquerque (ZAB), Fort Worth (ZFW), Memphis (ZME), and Houston (ZHU). Jacksonville (ZJX) and Miami (ZMA) are included for east-west routes only.

To develop a flight plan, select pitch and catch points based upon your desired route across the Phase I airspace. Filing requirements to pitch points, and from catch points, remain unchanged from current procedures. For the portion of the route between the pitch and catch points, non-restrictive routing is permitted.

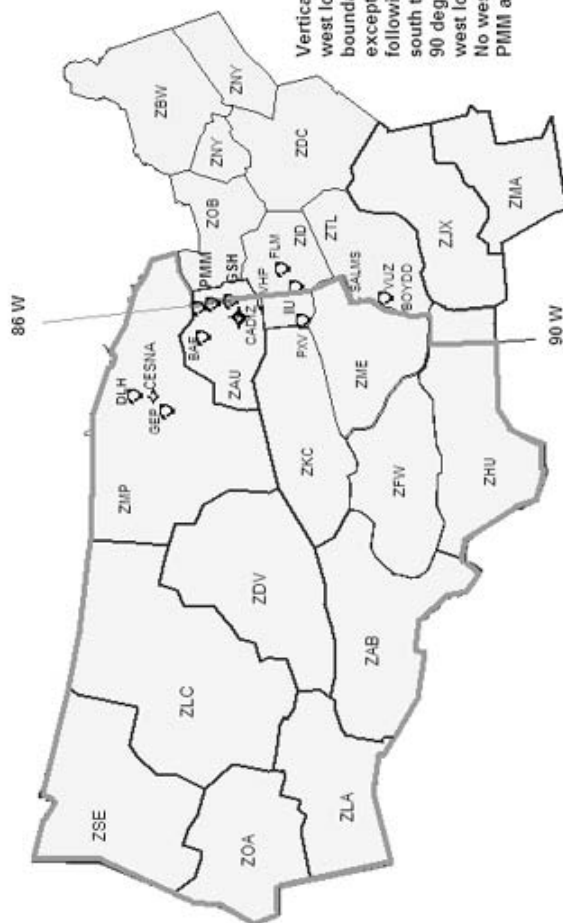
Where pitch points for a specific airport are not identified, aircraft should file an appropriate departure procedure (DP), or any other user preferred routing prior to the NRR portion of their routing. Where catch points for a specific airport are not identified aircraft should file, after the NRR portion of their routing, an appropriate arrival procedure or other user preferred routing to their destination.

Additionally, information concerning the location and schedule of Special Use Airspace (SUA) and Air Traffic Control Assigned Airspace (ATCAA) can be found on the Web Site: <http://sua.faa.gov/sua/Welcome.do>. ATCAA refers to airspace in the high altitude structure supporting military and other special operations. Users are encouraged to file around these areas when they are scheduled to be active, thereby avoiding unplanned reroutes around them.

In conjunction with the HAR program RNAV routes have been established to provide for a systematic flow of air traffic in specific portions of the enroute flight environment. The designator for these RNAV routes begin with the letter Q, for example, Q-501. Where those routes aid in the efficient orderly management of air traffic they will be published as preferred IFR routes.

## High Altitude Redesign (HAR) Phase One Expansion Airspace

Except as noted, flights entering HAR expansion airspace may pitch at the airspace boundary, at the vertical pitch line, or at the fixes listed on the following page.



Vertical Pitch Line: 86 degrees west longitude from the ZMP/ZAU boundary to the ZME/ZID boundary, except between PMM and GSH, then following the ZME east boundary south to the ZHU boundary. Then west to 90 degrees west longitude, the 90 degrees west longitude to the ZHU southern boundary. No westbound traffic between PMM and GSH.



## HAR Special High Altitude Pitch (entry) Points for Nonrestrictive Routing for Airports Located Outside HAR Phase I Expansion Airspace

Westbound traffic originating outside of HAR airspace entering ZMP, ZAU, ZKC and ZME can begin non-restrictive routing over any of the following pitch points (listed from north to south):

DLH, CESNA, GEP, BAE, MKG, GRR, PMM, GSH, CADIZ, FWA, VHP, FLN, IUI, PXV, SGF, RZC, BNA, SALMS, VUZ, BOYDD, MIE.

Traffic originating outside of HAR airspace may also begin Nonrestrictive Routing upon crossing the pitch line depicted on the associated graphic.

## HAR Special High Altitude Pitch Points for Airports Located Within (below) HAR Phase I Expansion Airspace

This section lists pitch points for airports within the HAR Phase I expansion airspace.

Albuquerque	ABQ, GUP, HANOS or ZUN
Austin	ABI, FUZ, JCT, MQP, NAVYS, SJT or TNV
Boca Raton, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Burbank includes Santa Monica and Van Nuys	GMN, MARKS or DAG LAS or HEC EED or PMD BLH
Chicago Terminal Area	IOW, PLL275065, MZV or BAE
Dallas/Fort Worth Terminal Area	ABI, LBB, GTH, CDS, MRMAC, IRW, TUL, MLC, TXK ELD, SWB or Aircraft destined the Chicago terminal area Except MDW EAKER MIDEE BDF BRADFORD-STAR Or MLC J105 SGF BDF BRADFORD-STAR
Denver Terminal Area	PUB, DVC, DBL, RLG, EKR, LAR, MBW, CYS, BFF, HANKI, NATTI, ASHBY, BELKE, CABET, WEEDS, OR BINKE
Fort Lauderdale (or) Fort Lauderdale Executive	THNDR KPASA Q118 LENIE or THNDR KPASA Q116 CEEYA or THNDR KPASA Q110 FEONA or THNDR SMELZ Q106 GADAY or THNDR SMELZ Q106 BULZI
Houston Bush	LIT, EMG, MLC, JCT or Aircraft destined Atlanta Terminal Area LCH Q24 PAYTN HONIE-RNAV STAR or Aircraft joining J37 to the northeast, BPT GUSTI Q22 CATLN or Aircraft joining J42 to the northeast, ELD Q32 J42

Houston Hobby	LIT, EMG, MLC, JCT, or Aircraft joining J42 to the northeast, ELD Q32 J42
Jacksonville, FL	TAY
Kansas City Terminal Area	TIFTO, CATTS or KENTN
Los Angeles, includes Ontario	GMN, RZS or DAG LAS or TRM EED or TRM PKE
Las Vegas	DOBNE, MOSBI, NICLE, TRALR or ZELOT
Long Beach includes Orange County	GMN SNS, EHF, LANDO or TRM PKE or TRM EED
Memphis	BNA, HAAWK, SALMS or SQS
Miami Terminal Area	WINCO KPASA Q118 LENIE or WINCO KPASA Q116 CEEYA or WINCO KPASA Q110 FEONA or WINCO SMELZ Q106 GADAY or WINCO SMELZ Q106 BULZI
Milwaukee	GREAS
Minneapolis Terminal Area*	ONL, ABR, FAR, OBH, OVR, FOD
New Orleans Terminal Area	AEX, MEI, SQS, KAPLN
Orlando Terminal Area	WEBBS BRUTS Q118 LENIE or WEBBS GULFR Q116 CEEYA or WEBBS BULZI Q106 GADAY or WEBBS FEONA or WEBBS BULZI
Palm Beach, FL	TBIRD KPASA Q118 LENIE or TBIRD KPASA Q116 CEEYA or TBIRD KPASA Q110 FEONA or TBIRD SMELZ Q106 BULZI or TBIRD SMELZ Q106 GADAY
Palm Springs	TRM JOTNU BLD or TRM EED or TRM PKE
Phoenix	CHILY, CIE, CULTS, RSK, DOVEE, GCN, MESSI, SJN, DRYHT or MOHAK
Portland, OR	PDT, TIMEE

Salt Lake City	HVE, DTA, MLF, BCE, OAL, MTU, BVL, OCS, TWF, DBS, BPI or TCH J56 CHE or TCH J173 EKR
Saint Louis	VIH, MAP, MYERZ, MCM or HLV MCI
San Antonio Terminal Area	FUZ, SJT, MQP, ABI or Aircraft North of LFK, LFK or Aircraft South of HUB, ELA or Aircraft South of LFK and North of HUB LCH
San Diego	TRM EED or TRM PKE or TRM JOTNU BLD
San Francisco Bay Area Oakland San Jose	GALLI, INSLO, HAROL JSICA GALLI, INSLO, HAROL JSICA GALLI or INSLO
Seattle	BLUIT
Southwest Florida Airports (RSW/FMY)	JOCKS KPASA Q118 LENIE or JOCKS KPASA Q116 CEEYA or JOCKS KPASA Q110 FEONA or JOCKS SMELZ Q106 GADAY or JOCKS SMELZ Q106 BULZI
Tampa Terminal Area	FEONA, BULZI or BRUTS Q118 LENIE or GULFR Q116 CEEYA or BULZI Q106 GADAY

\*MSP area departures with destinations east of 93 degrees west longitude via preferred IFR routing.

### **Catch Points for Airports Located Outside HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to specific destinations which are outside the HAR Phase I airspace.

Atlanta Terminal Area	Aircraft through ZME airspace from ZKC airspace east of FAM, Pless Q19 BNA or Aircraft through ZME airspace from ZKC airspace west of FAM, ARG Q26 DEVAC or MEM or Aircraft through ZME airspace from ZID airspace west of a line from VHP to BWG, BNA or Aircraft through ZME airspace from ZID airspace east of a line from VHP to BWG, BWG or Aircraft through ZME airspace from ZFW airspace, MEM or MEI HONIE (RNAV)–STAR or PATYN HONIE (RNAV)–STAR
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Baltimore–Washington*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA or VUZ
Boston*	GEP, CRL, ECK, IIU, BNA or VUZ
Buffalo*	GEP, CRL
Hartford Bradley*	GEP, CRL
Canton–Akron*	GIJ, VHP, GEP
Charlotte	BNA, VUZ
Cincinnati Terminal Area	BNA, PXV or Aircraft north of SLC, JOT or Aircraft over or south of SLC, ENL or SLC or SFO departures, ENL, JOT
Cleveland Terminal Area*	OBK
Detroit Terminal Area	BAE MKG POLAR–STAR or VHP FWA MIZAR–STAR
Detroit Young	VHP FWA or LAN SPRTN–STAR
Indianapolis Terminal Area	BIB, SPI, JOT
Louisville	ENL, MEM
Newark*	GEP, VHP, FLM, IIU, BNA, VUZ or IOW GIJ J554 CRL J584 SLT FQM
New York Kennedy*	GEP, VHP, FLM, IIU, BNA, VUZ or DBQ J94 PMM J70 LVZ LENDY–STAR
New York LaGuardia*	GIJ, GEP, VHP, BAE, FLM, IIU, BNA, VUZ
Philadelphia Terminal Area*	GIJ, GEP, VHP, BAE, WHETT, BNA, VUZ
Pittsburgh Terminal Area*	VHP, GIJ, BAE, GEP
Pontiac	LFD, LAN, VHP, FWA, GEP
Providence	JHW, HEMDI, CESNA, GEP, GRB, TVC, ASP, VHP, IIU, BNA, VUZ
Raleigh–Durham	FLM, IIU, BNA, VUZ
Toronto Terminal Area	ECK, SVM, SSM, GEP
Teterboro*	GEP, VHP, CRL, BNA, VUZ
Washington Dulles/National*	GIJ, GEP, FLM, IIU, BAE, VHP, WHETT, BNA, VUZ
White Plains*	GEP, VHP, CRL, FLM, IIU, BNA, VUZ
Willow Run*	LAN, LFD, VHP, FWA, GEP

\*Eastbound aircraft over flying ZMP center airspace entering Toronto center airspace, file direct SSM or via J63, J522, Q505, Q504, Q502, Q501

or

Entering ZAU or ZOB airspace from north of DPR J16 MCW, GEP

or

Entering ZAU or ZOB airspace from or south of DPR J16 MCW, CRL.

**Catch Points for Airports Located Within (below) HAR Phase I Expansion Airspace**

This section lists exit points for aircraft destined to airports which are below HAR Phase I airspace.

Albuquerque Terminal Area	CURLY CURLY-STAR or ESPAN FRIHO-STAR or LAVAN LAVAN-STAR or FTI FRIHO-STAR or MIERA MIERA-STAR
Austin Terminal Area	Aircraft west of a north-south line at LFK, BLEWE or Aircraft east of a north-south line at LFK, IDU or LLO
Boca Raton, FL	CEW DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or DEFUN Q112 INPIN SHDAY (RNAV)-STAR Aircraft through ZHU remain south of ZME and ZTL airspace or SZW INPIN SHDAY (RNAV)-STAR
Chicago Midway	CVA MOTIF-STAR or PIA MOTIF-STAR or DBQ CVA MOTIF-STAR or LMN MOTIF-STAR
Chicago O'Hare Terminal Area	GEP DLL MSN JVL JANESVILLE-STAR or TVC PULLMAN-STAR or FOD DBQ JVL JANESVILLE-STAR or MCW JANESVILLE-STAR or GCK IRK BRADFORD-STAR
Dallas/Fort Worth Terminal Area	IRW, LOSZY, FSM, LIT, SQS, MLU, AEX, JUMBO, TQA, TURKI, HEATR Aircraft through ZME airspace from north and west of PXV, RZC, Q23 FSM or Aircraft through ZME airspace from east of PXV, PXV Q25 MEEOW or Aircraft through ZME airspace from J6 down to, but not including J52, LIT, SQS or Aircraft through ZME airspace from J52 and south of J52, SQS

Denver Terminal Area	OATHE DANDD-STAR
	or
	HGO QUAIL-STAR
	or
	LOPEC-STAR
	or
	ALS LARKS-STAR
	or
	HBU POWDR-STAR
	or
	EKR TOMSN-STAR
	or
	CHE TOMSN-STAR
	or
	BFF LANDR-STAR
	or
	LBF SAYGE-STAR
	or
	HCT SAYGE-STAR
	or
	RSK LARKS-STAR
	or
	LAA QUAIL-STAR
	or
	GCK J154 RYLIE DANDD-STAR
	or
	OCS J154 ALPOE RAMMS-STAR
	or
	YANKI J114 SNY LANDR-STAR
	or
	Aircraft filed BIL or east, MBW RAMMS-STAR
	CEW DEFUN Q104 PIE SWAGS (RNAV)-STAR
Ft Lauderdale or Ft Lauderdale Executive	Aircraft through ZHU airspace remain south ZME and ZTL airspace
	or
Houston Bush	SZW HEVVN Q104 PIE SWAGS (RNAV)-STAR
	CRP, CVE, LLO, LUKIY, SAT
	or
	Aircraft south and east of LLA, LLA
	or
	MISLE Q40 AEX
	or
	Aircraft north and east of SJI, SJI
	or
	Aircraft east of PXV, PXV Q31 DHART SWB
Houston Hobby	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	CRP, ELLVR, SAT, SWB
	or
	Aircraft south and east of GIRLY, GIRLY
	or
	Aircraft north and east of SJI, SJI
	or
	BESOM Q38 ROKIT ROKIT-STAR
	or
Jacksonville	Aircraft east of PXV, PXV Q29 HARES SWB
	or
	Aircraft north and west of PXV, PROWL Q33 DHART SWB
	GADAY ZOOSS TAY
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	ZOOSS TAY

John Wayne–Orange County	HEC, PGS, BLD or Aircraft south of TBC from ZAB airspace, HIPPI
Kansas City Terminal Area	LMN BRAYMER–STAR or PWE ROBINSON–STAR or EMP JHAWK–STAR
Las Vegas	DILCO, LIDAT, IGM or Aircraft over PGA or north of PGA KSINO or Aircraft south of PGA PGS LYNBY
Los Angeles Terminal Area	Aircraft North of TBC, HEC, PGS or Aircraft South of TBC from ZAB airspace, HIPPI, MESSI
Miami Terminal Area	CEW DEFUN Q104 CYY DEEDS (RNAV)–STAR Aircraft through ZHU airspace remain south ZME and ZTL airspace or SZW HEVVN Q104 CYY DEEDS (RNAV)–STAR
Minneapolis Terminal Area	Aircraft from north, west, south, FAR GOPHER–STAR or RWF SKETR–STAR or ALO KASPR–STAR or BRD GOPHER–STAR or BAE EAU CLAIRE–STAR or FOD TWOLF–STAR
Memphis Terminal Area	ARG, BWG, FSM, PXV, LIT, RZC, SQS, VUZ, BNA, GQO, ELD
Naples, FL	CEW DEFUN Q104 PLYER PIKKR (RNAV)–STAR Aircraft through ZHU AIRSPACE remain south of ZME and ZTL airspace or SZW HEVVN Q104 PLYER PIKKR (RNAV)–STAR
Nashville	CCT, GHM, GUITR, TINGS, VOLLs
New Orleans Terminal Area	BLUEZ, GPT, LCH, MCB, TBD, FATSO
Oakland	ILA or KATTS PAMMY or Aircraft over or south of a line ILC J16 DVC REANA KATTS PAMMY or Aircraft from north of ILC, JOPER PAMMY or KATTS PAMMY or Aircraft over or south of ILC, REANA KATTS PAMMY
Orlando Terminal Area	GADAY Q108 CLAWZ LEESE–STAR Aircraft through ZHU airspace remain south of ZME/ZTL airspace or OTK LEESE–STAR

Palm Beach, FL	CEW DEFUN Q112 INPIN GULLO (RNAV)–STAR Aircraft through ZHU airspace remain south of ZME and ZTL airspace or SZW INPIN GULLO (RNAV)–STAR
Phoenix	CORKR DRK or Aircraft from ZDV airspace, GUP or Aircraft from ZAB airspace, ZUN, MOHAK, SSO or VYLLA TUS
Phoenix Satellites	FLG, SSO, MOHAK or VYLLA, TUS
Portland, OR Terminal Area	ARNIT BONVL–STAR or LARNO BONVL–STAR or MOXEE MOXEE–STAR
St. Louis Terminal Area	SGF TRAKE–STAR or BUM TRAKE–STAR or ANX TRAKE–STAR or LMN IRK RIVRS–STAR or RBS VANDALIA–STAR
Salt Lake City Terminal Area	JNC J12 HELPR SPANE–STAR or EKR MTU SPANE–STAR or BCE DTA–TCH or MLF DTA–TCH or BVL BONNEVILLE–STAR or BYI BEARR–STAR or PIH BEARR–STAR or DBS BRIGHAM CITY–STAR or JAC BRIGHAM CITY–STAR or BPI BRIGHAM CITY–STAR or OCS BRIGHAM CITY–STAR
San Diego Terminal Area	EED, LAX, GBN
Santa Ana	HEC, PGS, BLD, HIPPI
San Antonio Terminal Area	IDU, CSI, JCT, LLO, CRP, LRD or West of a north–south line at LFK, BLEWE or East of a north–south line at LFK, IDU



San Francisco	FMG GOLDEN GATE--STAR
	or
	MVA MODESTO--STAR
	or
	ENI GOLDEN GATE--STAR
	or
	OAL MODESTO--STAR
	or
	South of a line ILC to DVC, REANA KATTS OAL MODESTO--STAR
San Jose	FMG HYP EL NIDO--STAR
	or
	OAL HYP EL NIDO--STAR
	or
	ENI GOLDEN GATE--STAR
	or
Seattle Terminal Area	South of a line ILC to DVC, REANA KATTS KICHI CANDA EL NIDO--STAR
	Aircraft From northeast, southeast, south, TEMPL GLASR--STAR
	or
	SUNED CHINS--STAR
	or
Southwest Florida Airports RSW and FMY	BTG OLMYPIA--STAR
	CEW DEFUN Q104 SWABE JOSFF--STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW HEVVN Q104 SWABE JOSFF--STAR
Tampa Terminal Area	CEW DEFUN Q104 HEVVN DARBS--STAR
	Aircraft through ZHU airspace remain south of ZME and ZTL airspace
	or
	SZW DARBS--STAR
Tucson	DRK PXR
	or
	MOHAK GBN

## VISUAL FLIGHT RULES (VFR) WAYPOINTS

VFR Waypoint names consist of five letters beginning with "VP". Stand-alone VFR Waypoints are portrayed on VFR Charts using the same four-point star symbol currently used for Instrument Flight Rules (IFR) Waypoints.

VFR Waypoints collocated with Visual Checkpoints (Visual Reporting Points) are portrayed with a Visual Check Point flag. The VFR Waypoint name is shown in parentheses adjacent to the Visual Check Point name.

VFR Waypoint names are not intended to be pronounceable and shall not be used in ATC communications.

CAUTION: GPS accuracy necessitates extra vigilance for other aircraft when navigating near any fix retrieved from a GPS database.

## BALTIMORE–WASHINGTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPAXI	_____	N38°34.57' /W076°20.38'
VPONX	_____	N39°06.65' /W076°55.92'
VPOOP	_____	N38°56.32' /W076°36.90'

## BOSTON HELICOPTER CHART

VPBAY	_____	N42°16.17' /W070°49.48'
VPBLT	_____	N42°19.67' /W070°53.40'
VPCGS	_____	N42°22.08' /W071°03.13'
VPEVS	_____	N42°23.52' /W071°04.10'
VPFEN	_____	N42°12.58' /W071°08.88'
VPFRE	_____	N42°25.03' /W071°12.32'
VPGLV	_____	N42°21.88' /W070°52.18'
VPHAM	_____	N42°30.13' /W071°07.15'
VPPIK	_____	N42°20.37' /W071°15.93'
VPQUA	_____	N42°12.10' /W071°04.78'
VPQUB	_____	N42°12.60' /W070°59.83'
VPSPF	_____	N42°24.20' /W071°09.47'
VPTOB	_____	N42°31.42' /W070°59.82'
VPWAN	_____	N42°36.88' /W071°19.45'

## BOSTON TERMINAL AREA CHART

VPCOH	Cohasset	N42°13.58' /W070°48.94'
VPCUT	Cuttyhunk Harbor	N41°25.50' /W070°55.03'
VPFRA	Framingham Shopping Center	N42°18.16' /W071°23.65'
VPHOL	Woods Hole	N41°31.06' /W070°40.60'
VPHUL	Hull	N42°18.20' /W070°55.30'
VPLPT	Nantucket Great Point	N41°23.41' /W070°02.78'
VPNED	Needham Towers	N42°18.51' /W071°14.64'
VPPEA	Peabody Shopping Center	N42°32.52' /W070°56.69'
VPROC	Rockingham Race Track	N42°46.29' /W071°13.57'
VPSCI	Scituate	N42°11.89' /W070°43.69'
VPTPT	Nantucket Third Point	N41°18.51' /W070°03.37'
VPTUC	Tuckernuck	N41°18.31' /W070°15.43'
VPWAK	Wakefield	N42°30.72' /W071°05.24'
VPWAN	Wang Towers	N42°36.88' /W071°19.45'

## CHARLOTTE SECTIONAL CHART

VPATO	_____	N34°37.37' /W076°31.47'
VPAVA	_____	N34°57.00' /W077°16.50'
VPBFE	_____	N32°16.38' /W080°47.50'
VPBRA	_____	N36°13.75' /W076°08.08'
VPGCE	_____	N36°03.90' /W076°36.42'
VPGHI	_____	N35°15.30' /W075°31.25'
VPGIO	_____	N35°32.50' /W076°37.33'
VPKJU	_____	N35°26.58' /W076°10.22'
VPLMN	_____	N34°55.43' /W077°46.42'
VPMAB	_____	N34°42.20' /W077°03.50'
VPNPO	ISLE OF PALMS	N32°47.78' /W079°46.45'
VPOKY	_____	N35°06.53' /W075°59.17'
VPREP	_____	N32°33.98' /W080°21.82'
VPRRS	_____	N33°25.45' /W079°07.60'
VPUMO	_____	N35°35.63' /W075°28.08'
VPWZO	_____	N36°00.87' /W075°40.07'
VPZIE	_____	N32°01.62' /W080°53.42'

## CHICAGO SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCH	_____	N31°49.35'/W081°51.07'

## DENVER TERMINAL AREA CHART/FLYWAY CHART

VPBEN	_____	N39°44.28'/W104°26.00'
VPFTG	_____	N39°44.35'/W104°32.75'
VPNIC	NORTH INTERCHANGE	N39°58.90'/W104°59.27'

## HOUSTON TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPBWY	_____	N29°46.25'/W095°09.24'
VPDTN	_____	N29°46.59'/W095°22.01'
VPGLA	_____	N30°08.32'/W095°06.62'
VPGLB	_____	N30°07.80'/W094°55.70'
VPKTY	_____	N29°47.05'/W095°44.92'
VPPLN	_____	N30°08.80'/W095°50.42'
VPRSN	_____	N29°30.00'/W095°41.00'
VPSND	_____	N29°23.13'/W095°28.86'
VPSNT	_____	N29°49.29'/W094°53.94'
VPTNE	_____	N29°47.48'/W095°03.34'
VPTNW	_____	N29°47.06'/W095°33.81'
VPTRK	_____	N29°24.06'/W095°10.44'

## JACKSONVILLE SECTIONAL CHART

VPAFI	_____	N31°49.35'/W081°51.07'
VPAFY	_____	N30°07.00'/W081°21.33'
VPBEC	_____	N29°46.25'/W081°15.10'
VPCJA	_____	N29°30.00'/W081°06.00'
VPCKY	_____	N28°46.50'/W082°34.00'
VPCNY	_____	N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDAR	_____	N31°22.38'/W081°24.13'
VPDFI	_____	N29°00.17'/W081°20.85'
VPDUT	_____	N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEGV	_____	N29°39.97'/W081°24.87'
VPFFU	_____	N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHAA	_____	N30°04.02'/W083°40.02'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIWA	MIDWAY	N31°48.33'/W081°25.85'
VPJMY	_____	N29°26.92'/W081°18.27'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV	_____	N28°48.00'/W080°52.00'
VPLJA	_____	N29°00.00'/W080°51.00'
VPMAI	_____	N30°50.02'/W084°56.63'
VPTLH	_____	N30°32.70'/W083°52.22'
VPXZY	_____	N29°35.00'/W083°10.00'
VPYIW	_____	N30°42.28'/W081°27.25'
VPZIE	_____	N32°01.62'/W080°53.42'

## KANSAS CITY SECTIONAL CHART

VPAGO	_____	N37°50.33'/W090°29.03'
VPBEK	_____	N37°15.07'/W092°30.67'
VPDEN	_____	N37°46.75'/W092°19.20'
VPENE	_____	N37°44.75'/W091°55.78'
VPES	_____	N36°59.48'/W091°00.88'
VPFME	_____	N37°41.00'/W092°38.33'
VPGXY	_____	N37°15.50'/W091°40.17'
VPMBE	_____	N37°11.08'/W090°27.92'
VPMKE	_____	N37°24.47'/W092°40.00'
VPROV	_____	N38°01.72'/W091°12.81'
VPUTT	_____	N37°52.05'/W092°01.20'



## LOS ANGELES SECTIONAL CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPFPL	OXNARD FINANCIAL PLAZA	N34°13.71'/W119°10.39'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

## LOS ANGELES TERMINAL AREA CHART/FLYWAY CHART

VPCNG	CONEJO GRADE US HWY 101	N34°12.54'/W118°59.61'
VPCSU	CSU CHANNEL ISLANDS	N34°09.76'/W119°02.53'
VPGETY	GETTY CENTER	N34°04.84'/W118°28.66'
VPLBP	BANNING PASS	N33°56.05'/W116°59.63'
VPLCC	CHAFFEY COLLEGE	N34°08.87'/W117°34.33'
VPLCP	CAJON PASS	N34°18.07'/W117°27.68'
VPLDL	DISNEYLAND	N33°48.72'/W117°55.13'
VPLDP	DANA POINT	N33°27.62'/W117°42.87'
VPLDS	DODGER STADIUM	N34°04.42'/W118°14.42'
VPLFX	91/605 INTERCHANGE	N33°52.38'/W118°06.08'
VPLGP	GRIFFITH PARK OBSERVATORY	N34°07.10'/W118°18.02'
VPLHF	110/405 FWYS	N33°51.42'/W118°17.10'
VPLHP	HUNTINGTON PIER	N33°39.32'/W118°00.25'
VPLKH	KING HARBOR	N33°50.75'/W118°23.88'
VPLLC	L.A. COLISEUM	N34°00.83'/W118°17.27'
VPLLM	LAKE MATHEWS	N33°50.58'/W117°26.85'
VPLMM	MAGIC MOUNTAIN	N34°26.20'/W118°36.28'
VPLMS	MILE SQUARE PARK	N33°43.40'/W117°56.77'
VPLPD	PRADO DAM	N33°53.40'/W117°38.48'
VPLPP	PACIFIC PALISADES	N34°02.13'/W118°32.15'
VPLQM	QUEEN MARY	N33°45.17'/W118°11.37'
VPLRB	ROSE BOWL	N34°09.67'/W118°10.05'
VPLRT	SANTA ANITA RACE TRACK	N34°08.45'/W118°02.65'
VPLSA	SANTA ANA CANYON	N33°52.03'/W117°42.68'
VPLSB	SANTA FE FLOOD BASIN	N34°07.72'/W117°57.30'
VPLSC	STATE COLLEGE	N33°52.97'/W117°53.13'
VPLSF	SAN FERNANDO RESERVOIR	N34°17.87'/W118°29.00'
VPLSP	SIGNAL PEAK	N33°36.33'/W117°48.63'
VPLSR	HAWTHORNE & 405 FREEWAY	N33°53.07'/W118°21.13'
VPLSS	SANTA SUSANA PASS	N34°16.00'/W118°38.43'
VPLTW	TUJUNGA WASH & FOOTHILL	N34°16.40'/W118°20.30'
VPLVT	VINCENT THOMAS BRIDGE	N33°44.97'/W118°16.32'
VPLWT	WATER TANK	N34°10.82'/W118°46.27'
VPNEW	NEWHALL PASS	N34°20.18'/W118°30.72'
VPSTC	SATICOY BRIDGE	N34°16.62'/W119°08.34'

## MIAMI SECTIONAL CHART

VPACH	HOLLYWOOD BEACH	N26°00.92'/W080°06.93'
VPBOV	_____	N27°57.00'/W080°46.75'
VPCLC	_____	N26°27.07'/W082°00.88'
VPCTE	_____	N26°09.28'/W081°20.70'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDUT	_____	N27°37.70'/W082°09.10'
VPDZE	_____	N27°19.00'/W080°44.17'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78'/W080°28.00'
VPFAH	_____	N26°25.40'/W081°29.67'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHRO	_____	N27°05.97'/W082°12.20'
VPHUC	_____	N28°19.87'/W082°43.77'
VPIBR	_____	N27°12.47'/W081°40.22'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPKOE	_____	N24°40.08'/W081°20.55'
VPLYV	_____	N24°49.07'/W080°49.17'
VPMBO	GULFSTREAM PARK	N25°58.57'/W080°08.17'
VPOBA	PUMPING STATION	N26°28.30'/W080°26.75'
VP RBI	_____	N25°50.67'/W080°55.18'
VP RNL	RANGER STATION	N25°22.92'/W080°36.58'
VPWMO	_____	N27°03.00'/W080°35.00'

## MIAMI TERMINAL AREA CHART/FLYWAY CHART

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPACH	HOLLYWOOD BEACH	N26°00.92' /W080°06.93'
VPEDY	ANDYTOWN TOLLGATE	N26°08.78' /W080°28.00'
VPMBO	GULFSTREAM PARK	N25°58.57' /W080°08.17'
VPOBA	PUMPING STATION	N26°28.30' /W080°26.75'
VPRBI		N25°50.67' /W080°55.18'
VPRLN	RANGER STATION	N25°22.92' /W080°36.58'

## NEW ORLEANS SECTIONAL CHART

VPGPT		N30°25.95' /W089°05.62'
VPLIP	PHILLIPS INLET	N30°16.23' /W085°59.25'
VPMAI		N30°50.02' /W084°56.63'
VPMOB		N30°23.00' /W088°31.72'
VPRAM		N30°18.95' /W089°35.88'
VPRER		N30°13.87' /W085°20.67'
VPRIV		N30°54.85' /W087°57.82'
VPSAW		N30°49.65' /W089°07.42'
VPTHR		N30°19.93' /W087°08.50'

## NEW YORK HELICOPTER CHART

VPJAY		N40°59.00' /W073°07.00'
VPLYD		N40°57.37' /W073°29.59'
VPROK		N40°52.70' /W073°44.24'

## PHOENIX TERMINAL AREA CHART/FLYWAY CHART

VPALL	ALLENVILLE	N33°20.97' /W112°35.20'
VPAQU	AQUEDUCT PUMPING STATION	N33°40.05' /W112°41.38'
VPARM	ARROWHEAD MALL	N33°38.52' /W112°13.48'
VPAWG	AHWATUKEE GOLF COURSE	N33°19.98' /W111°59.08'
VPAZM	ARIZONA MILLS	N33°23.43' /W111°57.88'
VPBAR	BARTLETT DAM	N33°49.10' /W111°37.92'
VPCCC	COUNTRY CLUB & CANAL	N33°30.73' /W111°50.37'
VPCNL	CANAL	N33°33.23' /W111°46.89'
VPFRB	FIREBIRD LAKE	N33°16.35' /W111°58.10'
VPFTN	FOUNTAIN HILLS	N33°36.12' /W111°42.72'
VPGLX	GILA CROSSING	N33°16.55' /W112°10.08'
VPGPP	GLENDALE POWER PLANT	N33°33.27' /W112°13.00'
VPMAR	MARICOPA	N33°03.42' /W112°02.88'
VPMHS	MESQUITE HIGH SCHOOL	N33°20.53' /W111°49.58'
VPNRV	NEW RIVER	N33°55.08' /W112°08.45'
VPNTT	NORTH TEST TRACK	N33°03.50' /W111°55.83'
VPPIR	PIR	N33°22.52' /W112°18.90'
VPQTR	QUINTERO GOLF COURSE	N33°49.53' /W112°23.58'
VPVRV	RIO VERDE COMMUNITY	N33°44.37' /W111°39.62'
VPSMC	SOUTH MOUNTAIN COLLEGE	N33°23.02' /W112°02.12'
VPSQP	SQUAW PEAK	N33°32.83' /W112°01.27'
VPSSS	SUPERSTITION SPRINGS MALL	N33°23.50' /W111°41.37'
VPSTN	SANTAN MOUNTAINS	N33°09.23' /W111°40.92'
VPSTT	SOUTH TEST TRACK	N32°56.25' /W111°59.67'
VPZZZ		N33°20.18' /W111°26.53'

## ST LOUIS TERMINAL AREA CHART/FLYWAY CHART

VPAGN	TV ANTENNA	N38°32.08' /W090°22.42'
VPBPE		N38°23.80' /W090°20.38'
VPCJY	HOLIDAY SHORES	N38°55.00' /W089°56.00'
VPCOJ	WINFIELD DAM	N39°00.28' /W090°41.23'
VPDFA	JEFFERSON BARRACKS BRIDGE	N38°29.18' /W090°16.47'
VPEAZ	BUSCH STADIUM	N38°37.43' /W090°11.55'
VPEDJ	WATER TANKS	N38°45.30' /W090°34.87'
VPEGR	GAS TANKS	N38°35.80' /W090°19.32'
VPEOX	ST PETERS	N38°47.17' /W090°39.25'

WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPFAI	HOWELL ISLAND	N38°40.00'/W090°43.00'
VPFFY	_____	N38°55.37'/W090°17.30'
VPGPF	_____	N38°35.60'/W090°26.92'
VPGVI	_____	N38°32.30'/W090°27.80'
VPHRQ	CHAIN OF ROCKS BRIDGE	N38°45.88'/W090°10.42'
VPIBO	WATERLOO	N38°20.00'/W090°09.00'
VPJMU	HORSESHOE LAKE	N38°41.00'/W090°05.00'
VPKNY	PACIFIC	N38°29.00'/W090°44.00'
VPLES	ST CHARLES	N38°47.00'/W090°30.00'
VPLIW	SIX FLAGS	N38°30.67'/W090°40.47'
VPLXU	GATEWAY ARCH	N38°37.50'/W090°11.00'
VPNSY	WOOD RIVER REFINERIES	N38°50.00'/W090°05.00'
VPNZY	WENTZVILLE	N38°48.83'/W090°50.98'
VPRAZ	JERSEYVILLE	N39°07.00'/W090°20.00'
VPRMO	FOREST PARK	N38°38.00'/W090°17.00'
VPWKO	COLUMBIA	N38°27.00'/W090°12.00'
VPXXI	MILLSTADT	N38°27.50'/W090°05.68'
VPYID	MOSENTHEIN ISLAND	N38°43.00'/W090°12.25'

## SALT LAKE CITY HELICOPTER CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPOCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'
VPHVE	SPAGHETTI BOWL	N40°43.50'/W111°54.22'
VPJRT	JORDAN RIVER TEMPLE	N40°35.02'/W111°55.58'
VPKSL	KSL ANTENNA	N40°46.80'/W112°05.80'
VPLGN	LAGOON AMUSEMENT PARK	N40°59.08'/W111°53.57'
VPMDH	MCKAY DEE HOSPITAL	N41°11.50'/W111°57.08'
VPMMT	MICROWAVE TOWERS	N40°48.50'/W111°53.37'
VPMSH	_____	N41°01.67'/W112°02.47'
VPNSL	_____	N40°50.15'/W111°54.90'
VPNTP	_____	N41°03.57'/W112°14.23'
VPOGE	GRAIN ELEVATOR	N41°13.13'/W112°00.45'
VPOPS	POWER STATION	N41°20.38'/W112°02.78'
VPPEN	STATE PRISON	N40°29.88'/W111°53.62'
VPPPT	PROMONTORY POINT	N41°12.28'/W112°25.73'
VPPTM	POINT OF THE MOUNTAIN	N40°27.42'/W111°54.83'
VPVVO	PROVO CANYON	N40°18.77'/W111°39.45'
VPRWY	_____	N40°48.48'/W112°00.33'
VPSLC	I-15/I-80 INTERCHANGE	N40°45.83'/W111°54.85'
VP TIP	SOUTH TIP	N40°50.93'/W112°10.92'
VPWBR	WEBER CANYON	N41°08.17'/W111°54.83'
VPWBT	_____	N40°38.00'/W112°03.33'

## SALT LAKE CITY TERMINAL AREA CHART/FLYWAY CHART

VPAIR	SALTAIR	N40°44.85'/W112°11.22'
VPBEE	SOUTH INTERCHANGE	N40°38.18'/W111°54.23'
VPBRN	BARN	N40°54.28'/W112°10.15'
VPCAP	STATE CAPITOL	N40°46.67'/W111°53.25'
VPOCHS	_____	N40°42.28'/W112°05.92'
VPCOP	BINGHAM COPPER MINE	N40°31.38'/W112°09.00'
VPCVI	CENTERVILLE INTERCHANGE	N40°55.30'/W111°53.43'
VPCWY	CAUSEWAY	N41°05.37'/W112°07.17'
VPCYN	PARLEYS CANYON	N40°42.67'/W111°48.10'
VPFPC	FREE PORT CENTER	N41°05.92'/W112°02.27'
VPFPK	FRANCIS PEAK	N41°01.98'/W111°50.30'
VPGFS	GARFIELD STACK	N40°43.28'/W112°11.88'

## WAYPOINT IDENT

VPHE  
VPJRT  
VPKSL  
VPLGN  
VPMDH  
VPMMT  
VPMST  
VPNSL  
VPNTF  
VPOGE  
VPOPS  
VPPEN  
VPPPT  
VPPTM  
VPPVO  
VPRWY  
VPSLC  
VPTIP  
VPUOU  
VPWBR  
VPWBT  
VPZOO

## COLLOCATED VFR CHECKPOINT

SPAGHETTI BOWL  
JORDAN RIVER TEMPLE  
KSL ANTENNA  
LAGOON AMUSEMENT PARK  
MCKAY DEE HOSPITAL  
MICROWAVE TOWERS  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
GRAIN ELEVATOR  
POWER STATION  
STATE PRISON  
PROMONTORY POINT  
POINT OF THE MOUNTAIN  
PROVO CANYON  
\_\_\_\_\_  
I-15/I-80 INTERCHANGE  
SOUTH TIP  
U OF U EVENTS CENTER  
WEBER CANYON  
\_\_\_\_\_  
HOGLE ZOO

## LOCATION

N40°43.50'/W111°54.22'  
N40°35.02'/W111°55.58'  
N40°46.80'/W112°05.80'  
N40°59.08'/W111°53.57'  
N41°11.50'/W111°57.08'  
N40°48.50'/W111°53.37'  
N41°01.67'/W112°02.47'  
N40°50.15'/W111°54.90'  
N41°03.57'/W112°14.23'  
N41°13.13'/W112°00.45'  
N41°20.38'/W112°02.78'  
N40°29.88'/W111°53.62'  
N41°12.28'/W112°25.73'  
N40°27.42'/W111°54.83'  
N40°18.77'/W111°39.45'  
N40°48.48'/W112°00.33'  
N40°45.83'/W111°54.85'  
N40°50.93'/W112°10.92'  
N40°45.73'/W111°50.28'  
N41°08.17'/W111°54.83'  
N40°38.00'/W112°03.33'  
N40°45.00'/W111°48.95'

## SAN DIEGO TERMINAL AREA CHART/FLYWAY CHART

VPLDP  
VPLSP  
VPOCN  
VPSBC  
VPSBL  
VPSBM  
VPSCF  
VPSCM  
VPSCP  
VPSCR  
VPSFB  
VPSLJ  
VPSMB  
VPSMP  
VPSMS  
VPSMV  
VPSMW  
VPSOP  
VPSOT  
VPSPL  
VPSPP  
VPSQS  
VPSRT  
VPSRM  
VPSVS  
VPSPT  
VPSVA

DANA POINT  
SIGNAL PEAK  
\_\_\_\_\_  
BARONA CASINO  
\_\_\_\_\_  
BLACK MOUNTAIN  
\_\_\_\_\_  
COWLES MOUNTAIN  
CRYSTAL PIER  
\_\_\_\_\_  
IRON MOUNTAIN  
LAKE JENNINGS  
\_\_\_\_\_  
\_\_\_\_\_  
MOUNT SOLEDAD  
\_\_\_\_\_  
MOUNT WOODSON  
OTAY MESA PRISON  
LOWER OTAY LAKE  
SOUTH POINT LOMA  
POWER PLANT  
QUALCOMM STADIUM  
DEL MAR RACE TRACK  
SAN MIGUEL MOUNTAIN  
SAN VICENTE ISLAND  
TORREY PINES GOLF COURSE  
\_\_\_\_\_  
\_\_\_\_\_

N33°27.62'/W117°42.87'  
N33°36.33'/W117°48.63'  
N33°14.15'/W117°26.63'  
N32°56.25'/W116°52.60'  
N33°05.18'/W117°18.55'  
N32°58.87'/W117°07.00'  
N32°48.55'/W117°09.17'  
N32°48.72'/W117°01.97'  
N32°47.77'/W117°15.42'  
N32°39.37'/W117°07.30'  
N32°58.25'/W116°57.33'  
N32°51.53'/W116°53.28'  
N32°45.57'/W117°12.22'  
N33°22.70'/W117°36.75'  
N32°50.40'/W117°15.10'  
N32°45.75'/W117°09.80'  
N33°00.52'/W116°58.23'  
N32°35.82'/W116°55.28'  
N32°37.73'/W116°55.38'  
N32°39.90'/W117°14.55'  
N33°08.25'/W117°20.23'  
N32°46.98'/W117°07.23'  
N32°58.58'/W117°15.95'  
N32°41.78'/W116°56.18'  
N32°55.53'/W116°55.00'  
N32°54.17'/W117°14.68'  
N33°11.48'/W117°16.38'

## SAN FRANCISCO SECTIONAL CHART

VPKBG

KINGSBURY GRADE

N38°58.75'/W119°53.20'

## SAN FRANCISCO TERMINAL AREA CHART/FLYWAY CHART

VPALT  
VPANT  
VPBBR  
VPCAL  
VPCBT  
VPCOY  
VPCQZ  
VPCRL  
VPCRY

ALTAMONT PASS  
ANTIOCH BRIDGE  
BENICIA BRIDGE  
CALAVERAS RESERVOIR  
LAKE CHABOT  
COYOTE HILLS  
CARQUINEZ BRIDGE  
\_\_\_\_\_  
CRYSTAL SPRINGS CAUSEWAY

N37°44.35'/W121°35.42'  
N38°01.45'/W121°45.02'  
N38°02.50'/W122°07.45'  
N37°28.16'/W121°48.93'  
N37°43.68'/W122°06.94'  
N37°32.50'/W122°05.06'  
N38°03.66'/W122°13.52'  
N37°11.00'/W121°41.06'  
N37°30.56'/W122°21.10'



WAYPOINT IDENT	COLLOCATED VFR CHECKPOINT	LOCATION
VPCSH	CAL STATE UNIVERSITY	N37°39.52'/W122°03.52'
VPDAM	DEL VALLE DAM	N37°36.91'/W121°44.78'
VPDLR		N37°07.00'/W121°47.06'
VPDUB	DUBLIN	N37°42.06'/W121°55.36'
VPEMB	EMBASSY SUITES	N37°26.05'/W121°53.83'
VPGGF	GOLDEN GATE FIELDS	N37°53.07'/W122°18.71'
VPGIL	GILROY	N37°01.37'/W121°33.99'
VPHHH	HAMILTON	N38°03.58'/W122°30.66'
VPKGO	KGO	N37°31.58'/W122°06.10'
VPLEX	LEXINGTON RESERVOIR	N37°11.66'/W121°59.18'
VPMID	MID-SPAN SAN MATEO BRIDGE	N37°36.28'/W122°11.81'
VPMOR	MORMON TEMPLE	N37°48.46'/W122°11.95'
VPNUM	NUMMI PLANT	N37°29.56'/W121°56.58'
VPPAC		N37°38.00'/W122°32.07'
VPPRU	PRUNEYARD	N37°17.33'/W121°56.01'
VPSAR	SARATOGA	N37°15.26'/W122°02.33'
VPSLA	SLAC/LINEAR ACCELERATOR	N37°24.75'/W122°14.35'
VPSTB	STINSON BEACH	N37°54.45'/W122°40.41'
VPSUN	SUNOL GOLF COURSE	N37°34.85'/W121°53.23'
VPUTC	U.T.C.	N37°13.93'/W121°41.35'
VPWAL	WALNUT CREEK	N37°53.78'/W122°04.30'
VPWAM		N37°30.28'/W122°10.00'
VPWFR	CEMENT PLANT	N37°30.88'/W122°12.26'

## TAMPA/ORLANDO TERMINAL AREA CHART/FLYWAY CHART

VPBOV		N27°57.00'/W080°46.75'
VPCNY		N28°30.00'/W080°45.00'
VPDAD	DADE CITY	N28°22.57'/W082°11.25'
VPDFI		N29°00.17'/W081°20.85'
VPDUT		N27°37.70'/W082°09.10'
VPEAR	CLEARWATER BEACH	N27°58.67'/W082°49.83'
VPFFU		N28°57.08'/W081°00.33'
VPGPE	ST PETE BEACH	N27°43.50'/W082°44.67'
VPHUC		N28°19.87'/W082°43.77'
VPKER	LAKE PARKER	N28°04.00'/W081°56.00'
VPLEV		N28°48.00'/W080°52.00'
VPLJA		N29°00.00'/W080°51.00'

## WASHINGTON SECTIONAL CHART

VSPACE		N38°07.82'/W076°48.75'
VPAXI		N38°34.57'/W076°20.38'
VPBRA		N36°13.75'/W076°08.08'
VPGCE		N36°03.90'/W076°36.42'
VPWZO		N36°00.87'/W075°40.07'

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LEFT  
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## VOR RECEIVER CHECK VOR RECEIVER CHECKPOINTS AND VOR TEST FACILITIES (VOT)

The use of VOR airborne and ground checkpoints is explained in Aeronautical Information Manual. Basic Flight Information and ATC Procedures.

NOTE: Under columns headed "Type of Checkpoint" & "Type of VOT Facility" G stands for ground. A/ stands for airborne followed by figures (2300 or 1000-3000) indicating the altitudes above mean sea level at which the check should be conducted. Facilities are listed in alphabetical order, in the state where the checkpoints or VOTs are located.

### ALABAMA

#### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Brookley (Mobile Downtown)</b> .....	112.8/BFM	G	313	1.68	On runup area for rwy 14. VOR grand receiver checkpoint OTS indef.
<b>Cairns AAF (Fort Rucker)</b> .....	111.2/OZR	G	066	1.0	On runup pad Twy F.
<b>Enterprise Muni</b> .....	116.6/EDN	A/2000	341	7.4	Red/white twr.
<b>Monroeville</b> (Monroe Co Arpt) .....	116.8/MVC	G	196	0.6	Rwy 03 runup area/turnaround pad.
<b>Montgomery</b> (Montgomery Rgnl/ Dannelly Field) .....	112.1/MGM	G	318	6.2	On Twy C north of Twy A.
<b>Northwest Alabama Rgnl</b> .....	116.5/MSL	G	289	5.6	On taxiway adjacent to approach end Rwy 29.
<b>Talladega Muni</b> .....	108.8/TDG	A/2000	084	9.0	Over center of segmented circle.
<b>Crimson</b> (Tuscaloosa Rgnl) .....	117.8/LDK	G	238	4.2	On centerline of Twy midway between ramp and rwy.

#### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Birmingham-Shuttlesworth Intl</b> .....	110.0	G	
<b>Huntsville Intl-Carl T Jones Fld</b> .....	111.0	G	

### FLORIDA

#### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Cypress</b> (Naples Muni) .....	108.6/CYY	G	121	0.6	On runup area Rwy 32.
<b>Crestview</b> (Bob Sikes) .....	115.9/CEW	A/1200	106	8.6	Over rotating bcn.
<b>Lakeland Linder Rgnl</b> .....	116.0/LAL	G	038	0.5	On NE end of Twy C.
	116.0/LAL	G	283	1.1	On Twy A-1.
<b>Melbourne Intl</b> .....	110.0/MLB	G	184	0.6	SW corner of arpt at intersection of Twy C and D.
<b>Ocala Intl-Jim Taylor Fld</b> .....	113.7/OCF	G	167	1.0	On taxiway E adjacent to E9.
<b>Orlando</b> (Executive) .....	112.2/ORL	G	324	.5	On Twy E near AER 13.
		G	311	.5	On Twy H near AER 13.
<b>Pahokee</b> (Palm Beach Co Glades) .....	115.4/PHK	A/1500	022	13	Over radio twr at intersection of 2 canals.
<b>Panama City-Bay Co Intl</b> .....	114.3/PFN	G	190	0.5	Main terminal ramp.

Facility Name (Arpt Name)	Freq./Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
		G	154	0.6	Rwy 32 run-up/Twy G.
		G	208	0.6	Rwy 5 run-up/Twy D.
<b>St. Petersburg-Clearwater Intl</b> .....	116.4/PIE	G	046	0.4	On circle located NE end of Twy M.
<b>Vero Beach Muni</b> .....	117.3/VRB	G	111	4.4	Runup area Rwy 29R.
		G	114	4	Compass rose on taxiway E.
		G	116	3.6	Runup area Rwy 11R.

VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Daytona Beach Intl</b> .....	111.0	G	
<b>Jacksonville Intl</b> .....	111.0	G	Unuseable E of Twy F.
<b>Miami Intl</b> .....	112.0	G	
<b>Palm Beach Intl</b> .....	109.0	G	
<b>Tallahassee Rgnl</b> .....	111.0	G	
<b>Tampa Intl</b> .....	111.0	G	

GEORGIA

VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq./Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Athens</b> (Madison Muni) .....	109.6/AHN	A/2000	199	21	Over center of rwy.
<b>Athens</b> (Athens/Ben Epps) .....	109.6/AHN	G	284	.5	Runup area Rwy 09.
<b>Atlanta</b> (DeKalb-Peachtree) .....	116.6/PDK	G	004	0.5	On runup area Rwy 20L. VOR ground checkpoint unavailable.
		G	218	0.5	On runup area Rwy 02L and 02R.
<b>Brunswick</b> (Malcolm McKinnon) .....	109.8/SSI	A/1050	029	7.2	Over rotating bcn.
<b>Columbus Metropolitan</b> .....	117.1/CSG	G	146	7.1	FBO ramp in front of ASOS equipment.
<b>Dublin</b> (W H 'Bud' Barron) .....	113.1/DBN	G	270	7.6	Ramp.
<b>Foothills</b> (Toccoa RG Letourneau Fld) .....	113.4/ODF	A/2000	179	6	Over rotating bcn.
<b>Hunter</b> .....	111.6/SVN	A/1500	090	15.5	Over lighthouse.
<b>Hunter AAF</b> .....	111.6/SVN	G	271	1.2	On Twy 6.
<b>Lawson AAF</b> .....	111.4/LSF	G	356	.6	On painted circle at taxiway intersection 580' NW of twr.
<b>Macon</b> .....	114.2/MCN	A/2000	028	13.6	Over oil tank.
		A/2000	320	9.5	Over dam.
<b>Pecan</b> (Southwest Georgia Rgnl) .....	116.1/PZD	A/1000	145	9	Over rotating bcn E side of arpt.
<b>Rome</b> (Richard B Russel) .....	115.4/RMG	G	348	11.5	At intersection of twy 200' S of terminal building. VOR ground checkpoint unavailable.
<b>Savannah</b> .....	112.7/SAV	A/1500	097	19.6	Over red and white lighthouse.
<b>Valdosta Rgnl</b> .....	114.8/OTK	G	131	0.6	On taxiway at apch end rwy 35.
<b>Vienna</b> (Crisp County-Cordele) .....	116.5/VNA	A/1300	226	19	Over center of NE/SW rwy.
<b>Waycross-Ware Co</b> .....	110.2/AYS	A/1200	099	8	Over fire twr W side arpt.

## VOR RECEIVER CHECK VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Atlanta</b> (Hartsfield–Jackson Atlanta Intl) ..	111.0	G	VOT OTS indef.
(Atlanta Muni).....	111.0	G	
<b>Brunswick Golden Isles</b> .....	111.0	G	
<b>Savannah/Hilton Head Intl</b> .....	111.0	G	

## KENTUCKY

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Central City</b> (Muhlenberg Co) .....	109.8/CCT	A/2500	153	10.6	Over intersection of Rwy 23 and central taxiway.
<b>Clarksville</b> (Campbell AAF) .....	110.6/CKV	G	307	4.9	On taxiway 6 center romeo helipad.
<b>Clarksville</b> (Hopkinsville–Christian Co).....	110.6/CKV	A/2000	345	13.5	Over hangar.
<b>Fort Knox</b> (Godman AAF).....	109.6/FTK	A/2000	270	9.2	W of Godman AAF over a 298 ft twr.
<b>Frankfort</b> (Capital City) .....	109.4/FFT	G	082	.7	Runup pad Rwy 24.
<b>London</b> (London–Corbin Arpt–Magee Fld) .....	116.1/LOZ	G	033	3.8	On parking ramp taxiway entry.
<b>Owensboro–Davies Co.</b> .....	108.6/OWB	G	176	.7	On taxiway at apch end Rwy 36.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Louisville Intl–Standiford Fld</b> .....	111.0	G	

# VOR RECEIVER CHECK NORTH CAROLINA

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## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Barretts Mountain</b> (Hickory Rgnl) .....	110.8/BZM	A/2200	229	10.2	Over apch end Rwy 24.
<b>Cofield</b> (Tri-Co).....	114.6/CVI	A/4500	259	15.3	Distance 20/25.
<b>Fayetteville Rgnl/Grannis Fld</b> .....	108.8/FAY	G	278	0.6	On runup area Rwy 04.
<b>Greensboro</b> (Lexington Muni) .....	116.2/GSO	A/2300	228	22	Over rotating bcn atop W end of building.
<b>Greensboro</b> (Piedmont Triad Intl) .....	116.2/GSO	G	036	3.5	On Twy M3. Checkpoint OTS indef.
<b>Greensboro</b> (Smith Reynolds).....	116.2/GSO	A/2000	297	13.5	Over atct.
<b>Kinston Rgnl Jetport At Stallings Fld</b> .....	109.6/ISO	G	230	3.1	Twy A between A4 and A5.
<b>Raleigh-Durham Intl</b> .....	117.2/RDU	G	244	0.85	At end of taxiway to Rwy 05R.
<b>Sugarloaf Mountain</b> (Asheville Rgnl).....	112.2/SUG	A/3200	280	13.6	Over atct. Airborne checkpoint unusable indef.
<b>Tar River</b> .....	117.8/TYI	A/1500	260	5.8	Over smoke stack at power house.

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Charlotte</b> (Charlotte/Douglas Intl).....	112.0	G	
<b>Hickory Rgnl</b> .....	110.0	G	

# SOUTH CAROLINA

## VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Charleston AFB/Intl</b> .....	113.5/CHS	G	225	.7	Runup pad Rwy 03.
	113.5/CHS	G	009	.5	Runup pad Rwy 21.
	113.5/CHS	G	337	1.2	Runup pad Rwy 15.
	113.5/CHS	G	331	0.3	Runup area for Rwy 33.
<b>Electric City</b> (Anderson Rgnl).....	108.6/ELW	G	039	5.5	On ramp in front of terminal bldg.
<b>Grand Strand</b> .....	117.6/CRE	A/1100	238	6	Over white water tank.
	117.6/CRE	G	213	0.7	On runup pad Rwy 05.
<b>Greenwood Co</b> .....	115.5/GRD	G	250	.7	End of taxiway at Rwy 09

## VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Charleston AFB/Intl</b> .....	111.0	G	

## VOR RECEIVER CHECK TENNESSEE

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Hinch Mountain</b> (Crossville Memorial–Whitson Fld) .....	117.6/HCH	A/2900	336	11	Over metal hangar.
	117.6/HCH	G	335	11.5	Runup area between taxiway and rwy at center of fld.
<b>Holston Mountain</b> (Tri–Cities Rgnl TN/VA) ...	114.6/HMV	G	286	13.7	On ramp S of terminal building.
<b>Jackson</b> (McKellar–Sipes Rgnl) .....	112.0/MKL		256	0.6	At south end of ramp at fire station.
<b>Nashville</b> (Lebanon Muni) .....	114.1/BNA	A/2000	082	18	Over midfield.
<b>Tullahoma Rgnl/Wm Northern Fld</b> .....		A/1800	003	5.0	Over Normandy Dam.

### VOR TEST FACILITIES (VOT)

Facility Name (Airport Name)	Freq.	Type VOT Facility	Remarks
<b>Knoxville</b> (McGhee–Tyson) .....	112.0	G	
<b>Memphis Intl</b> .....	111.0	G	
<b>Nashville Intl</b> .....	108.6	G	
<b>Smyrna</b> .....	110.2	G	

## PUERTO RICO

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Borinquen</b> (Rafael Hernandez) .....	113.5/BQN	G	271	2.2	On apch end of Rwy 08.

## VIRGIN ISLANDS

### VOR RECEIVER CHECKPOINTS

Facility Name (Arpt Name)	Freq/Ident	Type Check Pt. Gnd. AB/ALT	Azimuth from Fac. Mag	Dist. from Fac. N.M.	Checkpoint Description
<b>Saint Thomas</b> (Cyril E. King) .....	108.6/STT	G	118	3.5	On taxiway North of Main ramp. VOR gnd checkpoint unusable.



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The following tabulation lists all reported parachute jumping sites in the area of coverage of this directory. Unless otherwise indicated, all activities are conducted during daylight hours and under VFR conditions. The busiest periods of activity are normally on weekends and holidays, but jumps can be expected at anytime during the week at the locations listed. Jumps within restricted airspace are not listed.

All times are local and altitudes MSL unless otherwise specified.

Contact facility and frequency is listed at the end of the remarks, when available, in bold face type.

Refer to Federal Aviation Regulations, Part 105 for required procedures relating to parachute jumping.

Organizations desiring listing of their jumping activities in this publication should contact the nearest FSS, tower or ARTCC.

Qualified parachute jumping sites will be depicted on the appropriate visual chart(s).

Note: (c) in this publication indicates that the parachute jump area is charted.

To qualify for charting, a jump area must meet the following criteria:

- (1) Be in operation for at least 1 year.
- (2) Operate year round (at least on weekends).
- (3) Log 4,000 or more jumps each year.

In addition, jump sites can be nominated by FAA Regions if special circumstances require charting.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
<b>ALABAMA</b>			
Allen Army Heliport .....	11 NM; 253° Wiregrass .....	12,500	1 NM radius. SR-SS weekends and holidays.
(c) Bayou La Batre, Roy E.Ray Arpt.....	12 NM; 217° Brookley .....	12,500	Daily SR-SS
Bessemer, Old Bessemer Arpt .....	16 NM; 057° Brookwood .....	10,000	1030-SS weekends
(c) Cullman, Folsom Fld Arpt .....	36 NM; 001° Vulcan .....	14,500	3 NM radius. SR-SS Sat-Sun, other times by NOTAM.
(c) Dothan, Hatch Army Heliport .....	10.3 NM; 290° Wiregrass .....	12,500 AGL	1 NM SR-SS weekends and holidays.
(c) Elberta, Horak Arpt .....	11 NM; 268° Saufley .....	14,000	Daily 0700-1/2 hour after SS.
Ellis Drop Zone .....	15 NM; 220° Decatur .....	1,500	0.4 NM radius. Occasional use
Eutaw Muni Arpt .....	30 NM; 200° Crimson .....	13,000 AGL	Weekends and holidays
Gadsden, Northeast Alabama Rgnl Arpt ..	3 NM; 230° Gadsden .....	14,000	Weekends and holidays 0900-SS.
Harvest, Epps Arpk .....	9 NM; 297° Rocket .....	13,500	Daily SR-SS
(c) Hazel Green .....	7 NM; 355° Rocket .....	14,000	7 NM radius. Daily SR-SS. Occasional night use.
Headland Muni Arpt .....	8 NM; 070° Wiregrass .....	15,000	Weekdays 1200-SS; Sat-Sun, and holidays SR-SS
Jones Drop Zone .....	6 NM; 276° Rocket .....	1,500	0.25 NM radius. Occasional use
Kilby Drop Zone .....	13 NM; 014° Montgomery .....	1,500	0.2 NM radius. Occasional use
Moundville Arpt .....	18 NM; 198° Tuscaloosa .....	12,000 AGL	5 NM radius. 0900-SS on weekends, occasionally weekdays by Notam.
Pell City, St Clair Co Arpt .....	10 NM; 263° Talladega .....	15,500	5 NM radius. SR-SS daily except Mon-Tue.
Pinson, Industrial Park .....	12 NM; 085° Vulcan .....	10,500	0800-SS Sat-Sun, occasionally weekday and ngt use.
Prattville-Grouby Fld Arpt .....	17 NM; 300° Montgomery .....	2,000	10NM radius. For specific times call 334-953-7325.
Redstone Drop Zone .....	9 NM; 220° Rocket .....	1,500	0.2 NM radius. Occasional use
Renda Drop Zone .....	8 NM; 234° Talledega .....	1,500	0.25 NM radius. Occasional use
Tac Runkle Drop Zone .....	19 NM; 280° Cairns .....	3,500 AGL	Occasional use
Tommy Drop Zone .....	17 NM; 235° Montgomery .....	1,500	0.2 NM radius. Occasional use
(c) Tuskegee, Moton Fld Muni .....	2 NM; 198° Tuskegee .....	12,500	3 NM radius. Occasionally on weekends.
Vincent .....	37 NM; 130° Vulcan .....	10,000	5 NM radius. Weekends 0900-SS.
Warrior .....	11 NM; 350° Vulcan .....	12,500	Daily SR-SS
Weaver, McMin Arpt .....	15 NM; 047° Talladega .....	12,500	1 NM radius. Daily SR-SS, occasional night use.
(c) Wetumpka Muni .....	18 NM; 356° Montgomery .....	10,000	Daily SR-SS
<b>FLORIDA</b>			
Arcadia Muni .....	23 NM; 311° Labelle .....	15,000	5 NM radius. SR-SS daily, occasional ngt use.
Avon Park Executive Arpt .....	30 NM; 138° Lakeland .....	4,000	4 NM radius. Daily SR-SS
Brandon, Sod Farm .....	16 NM; 255° Lakeland .....	15,000	0830-1830 weekends
(c) Bunnell, Flagler County Arpt .....	11 NM; 334° Ormond Beach .....	14,000	3 NM radius. SR-SS daily. Occasional nights.
Chassahowitzka Drop Zone .....	38 NM; 010° St. Petersburg .....	4,000	0.25 NM radius. Occasional use

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Clewiston, Airglades Arpt .....	19 NM; 097° LaBelle .....	13,500	1 NM radius. Daily SR-SS
(c) Coleman, Freeflight Arpt .....	24 NM; 155° Ocala .....	15,000	3 NM radius. Daily SR-SS.
(c) Deland Muni-Sidney H Taylor Fld ....	17 NM; 210° Ormond Beach .....	15,000	1 NM radius. SR-SS Sat, Sun, occasionally weekdays.
Englewood, Buchan Arpt .....	27 NM; 158° Sarasota .....	15,000 AGL	2 NM radius. Sunday 1000-SS
Florabama Drop Zone .....	16 NM; 216° Saufley .....	14,000	2 NM radius. Fri-Sun 0830-SS.
(c) Homestead General Aviation .....	22 NM; 218° Dolphin .....	15,000	5 NM radius. 24 hrs daily.
Jacksonville, Herlong Arpt .....	15 NM; 255° Craig .....	15,000	1 NM radius. Daily SR-SS with prior notification to JAX APP CON.
Key West .....	1 NM; 095° Key West .....	7,000	0.2 NM radius. Occasional use.
(c) La Belle, Sundance Farms Arpt .....	5.4 NM; 245° La Belle .....	12,500	1 NM radius. Daily SR-SS.
(c) Lake Wales Muni .....	21 NM; 104° Lakeland .....	18,000	7 NM radius, 24 hrs daily. <b>Miami Center 127.2</b>
(c) MacDill AFB .....	11 NM; 110° St. Petersburg .....	10,000	0600-1100 Sun. Over Rwy 31
(c) Melanie's Arpt .....	24 NM; 075° Crestview .....	13,000	3 NM radius. SR-SS Sat-Sun, holidays and other times by NOTAM.
(c) Myakka City .....	18 NM; 097° Sarasota .....	12,500	5 NM radius, 24 hrs daily
(c) New Smyrna Beach, Massey Ranch Airpark .....	22 NM; 150° Ormond Beach .....	15,000	1 NM radius SR-SS weekends, occasionally weekdays.
(c) Palatka Muni-Lt. Kay Larkin Fld ....	36 NM; 079° Gainesville .....	12,500	3 NM radius. Daily, SR-SS
(c) Pahokee, Palm Beach Co Glades Arpt .....	at Pahokee .....	17,500	3 NM radius, 0800-1800 daily.
(c) Quincy Muni Arpt .....	10 NM; 288° Seminole .....	15,000	Daily SR-SS
(c) St. Augustine .....	35 NM; 159° Craig .....	12,500	Sat-Sun occasionally weekdays
(c) Sebastian Muni .....	8 NM; 358° Vero Beach .....	22,000	10 NM radius. Daily SR-SS.
(c) Shell Creek Airpark .....	27.5 NM; 347° Lee County .....	13,000	1 NM radius. SR-SS weekends, holidays.
(c) Sugar Loaf Shores Arpt .....	13 NM; 071° Key West .....	14,000	2 NM radius. SR-SS.
Sun City .....	22 NM; 123° St. Petersburg .....	12,500	
(c) Titusville, Arthur Dunn Air Park .....	33 NM; 341° Melbourne .....	13,500	1 NM radius, SR-SS daily.
(c) Umatilla Muni Arpt .....	29 NM; 327° Orlando .....	13,000 AGL	2 NM radius. SR-SS. Occasional night use.
Wakulla Co Arpt .....	35 NM; 180° Seminole .....	13,500	3 NM radius. SR-SS weekends occasionally weekdays.
(C) Williston Muni Arpt .....	22 NM; 210° Gators .....	11,000	<b>Tallahassee Rgnl Tower 135.8</b>
(c) Zephyrhills Muni .....	16 NM; 330° Lakeland .....	20,000	2.5 NM radius. SR-SS Fri, Sat and Sun. <b>Jacksonville Center 118.6</b>
<b>GEORGIA</b>			
Bunker Hill Drop Zone .....	10 NM; 233° Harris .....	8,000	1 NM radius. SR-1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.
(c) Cedartown, Polk Co Arpt-Cornelius Moore Fld .....	9 NM; 188° Rome .....	15,000	3 NM radius. SR-SS daily, occasionally nights.
Claxton-Evans Co Arpt .....	33.6 NM; 276° Savannah .....	7,500	0900-SS Sat and Sun
(c) Dahlonga, Lumpkin County Arpt, Wimpy Drop Zone .....	23 NM; 193° Harris .....	15,000	1 NM radius. SR to 1 hr after SS daily irregular intervals. Mass military jumps from multiple acft.
Dahlonga Highway 76 Drop Zone .....	11 NM; 231° Harris .....	3,000	Occasional use.
Fort Benning, Box Spring Drop Zone ....	24.5 NM; 116° Columbus .....	3,000	Occasional use.
Fort Benning, Eelbeck Drop Zone .....	17.5 NM; 131° Columbus .....	3,000	Occasional use.
(c) Fort Benning, EuBanks Drop Zone ....	16 NM; 171° Columbus .....	12,500	Daily 0500-1900
(c) Fort Benning, Fryar Field Drop Zone .....	22.5 NM; 168° Columbus .....	13,000	0.5 NM radius, Continuous.
(c) Fort Benning, Gardner Drop Zone ....	17 NM; 171° Columbus .....	12,500	Daily 0500-1900
Fort Benning, Lawson AAF (Fort Benning) .....	1.8 NM; 046° Lawson .....	12,500	1 NM radius. Daily SR-SS
Fort Benning, Lae Drop Zone .....	21 NM; 166° Columbus .....	3,000	Occasional use
Fort Benning, Ledo Drop Zone .....	14 NM; 090° Lawson .....	3,000	Occasional use
Fort Benning, McKenna Drop Zone .....	10 NM; 080° Columbus .....	3,000	Occasional use
(c) Fort Benning, York Drop Zone .....	16 NM; 172° Columbus .....	12,500	Daily 0500-1900
Fort Valley, Miami Valley Farms Arpt ....	12 NM; 220° Macon .....	14,000	1 NM radius, Daily 0900-SS
Locust Grove, Mallards Landing Arpt .....	17.5 NM; 118° Atlanta .....	13,500	Sat, Sun and holidays SR-SS. Occasional ngt jumps
(c) Monroe-Walton Co Arpt .....	22 NM; 242° Athens .....	13,500	5 NM radius. Daily 0800-2100.
Plantation Airpark, Moore Drop Zone ....	36 NM; 332° Savannah .....	1,500 AGL	1 NM radius. Occasional use. Mass Military jumps from multiple acft.
(c) Rome, Richard B. Russell Arpt .....	11.3 NM; 349° Rome .....	15,000	5 NM radius. SR-SS Weekends.
St Marys Arpt .....	19 NM; 203° Brunswick .....	12,000	2 NM radius. Daily 0700-1859.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
Thomaston-Upson Co .....	35 NM; 296° Macon .....	14,500	1 NM radius. Sat-Sun occasionally weekdays.
Tifton, Henry Tift Myers, Arpt .....	1 NM; 090° Tift Myers .....	15,000	5 NM radius. Daily 0700-1800.
Waycross-Ware Co Arpt .....	8 NM; 100° Waycross .....	12,500	1 NM radius. Daily 1000-1600
Wilscott Drop Zone .....	14 NM; 245° Harris .....	8,000	1 NM radius. SR to 1 hr after SS daily, irregular intervals. Mass military jumps from multiple acft.

## KENTUCKY

Elizabethtown, Addington Fld .....	12 NM; 285° New Hope .....	11,000	3 NM radius, SR-SS Weekends and noon-SS weekdays.
Elkton, Standard Fld .....	16 NM; 045° Clarksville .....	12,000	5 NM radius. Continuous.
(c) Flemingsburg, Fleming Mason Arpt ..	27 NM; 103° Falmouth .....	12,500	1 NM radius. SR-SS Sat-Sun and holidays.
Ft. Campbell, Bastogne Drop Zone .....	8 NM; 274° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Corregidor Drop Zone .....	11 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Los Banos Drop Zone .....	10 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Ft. Campbell, Suckchon Drop Zone .....	10 NM; 270° Clarksville .....	3,000	0600-2330 Mon-Fri and occasional weekends. Military use.
Glasgow Muni Arpt .....	24 NM; 073° Bowling Green .....	8,000	5 mi radius. SR-SS weekends and holidays
(c) Greenville, Muhlenberg Co Arpt .....	10 NM; 149° Central City .....	13,500	5 mi. radius. Daily SR-SS.
	7 NM; 149° Central City .....	2,000	2 NM radius. Intermittent. Military use.
(c) Hopkinsville-Christian Co .....	14 NM; 352° Clarksville .....	14,500	3 NM radius, 0900-1600 Tue-Fri; occasional weekends.
Owensboro, Windy Hollow Drag Strip .....	6 NM; 205° Owensboro .....	8,000	2 NM radius. 0800-SS Sun, holidays occasionally other times

## NORTH CAROLINA

(c) Cherry Point, Cannon Drop Zone .....	9 NM; 184° Cherry Point Tacan ..	10,500	3 NM radius. Weekends and holidays, occasional use weekdays.
Erwin Arpt .....	22 NM; 030° Fayetteville .....	4,500	1 NM radius. Sat & Sun afternoons
(c) Fayetteville, Southern Comforts Arpt ...	9 NM; 220 Fayetteville .....	14,000	3 NM radius. Fri-Mon and holidays SR-SS.
Greensboro, Southeast Greensboro Arpt .....	18 NM; 115° Greensboro .....	12,000	1 NM radius. 0800-2000 Sat and Sun.
	8 NM; 339° Liberty .....	11,000	3 NM radius. 0800-1600 Fri-Sun.
Greenville .....	22 NM; 040° Kinston .....	15,500	Daily SR-SS.
(c) Jonesville, Swan Creek Arpt .....	27 NM; Barretts Mountain .....	15,000	3 NM radius. SR-SS daily, occasional night.
(c) Louisburg, North Raleigh .....	22 NM; 060° Raleigh-Durham .....	15,500	30 min before SR-30 min after SS daily. Occasional ngt.
(c) Luzon Drop Zone .....	13 NM; 152° Sandhills .....	17,500	0600-1900 Daily.
Mackall AAF .....	11 NM; 150° Sandhills .....	17,500	Continuous.
(c) Maxton, Laurinburg-Maxton Arpt .....	26 NM; 250° Fayetteville .....	13,500	0800-1700 Mon-Fri.
Mebane, Kimrey Arpt .....	29 NM; 296° Raleigh/Durham .....	12,000	1 NM radius. 0900-SS Weekends; occasionally other times.
Pinebluff .....	8.75 NM; 143° Sandhills .....	12,500	Sat, Sun and holidays. Weekdays on request.
(c) PK Airpark .....	17 NM; 280° Fayetteville .....	12,500 AGL	Continuous.
(c) Rocky Mount .....	9.5 NM; 285° Tar River .....	12,500	Sat, Sun and holidays 0900-SS.
Southport, Brunswick Co. ....	27.2 NM; 209° Wilmington .....	12,000	3 NM radius. 0800-2100 daily.
Thomasville, Fairgrove Arpt .....	13 NM; 201° Greensboro .....	14,000	Weekends and holidays.
(c) Wallace, Henderson Fld .....	23 NM; 351° Wilmington .....	15,000 AGL	3 NM radius. Sat-Sun SR-SS.
Washington, Warrenn Fld .....	27.6 NM; 069° Kinston .....	14,999 AGL	2 NM radius. SR-SS daily, occasional night use.

## SOUTH CAROLINA

(c) Barnwell Rgnl Arpt .....	15 NM; 343° Allendale .....	12,500	Daily SR-SS.
Beaufort County Arpt .....	38.25 NM; 067° Savannah .....	10,000	1.0 NM radius. Sat, Sun and holidays SR-SS.
(c) Chester Catawa Rgnl Arpt .....	16.5 NM; 223° Fort Mill .....	13,500 AGL	1 NM radius. Daily 0800-SS.
Clemson-Oconee Co. Arpt .....	14 NM; 343° Electric City .....	12,000	Daily SR-SS.
Columbia, Fort Jackson .....	10 NM; 020° Columbia .....	10,000	1 NM radius. Weekends, occasional weekdays.

LOCATION	DISTANCE AND RADIAL FROM NEAREST VOR/VORTAC	MAXIMUM ALTITUDE	REMARKS
(c) Green Sea Arpt.....	25 NM; 330° Grand Strand.....	15,000	3 NM radius. Weekends and occasional weekdays SR-SS.
(c) Loris, Twin City Arpt.....	15 NM; 340° Grand Strand.....	12,000	Weekends, holidays 0800-SS.
(c) North AF Aux Arpt .....	15 NM; 186° Columbia.....	2,000	½ NM radius. Mon-Fri 0800-2200. Military personnel and heavy equipment.
St George Arpt.....	17 NM; 192° Vance.....	17,900	SR-1 hr after SS.
Timmonsville, Huggins Arpt .....	14 NM; 247° Florence .....	12,500	Daily SR-SS.
(c) Walterboro, Lowcountry Rgnl Arpt ...	30.5 NM; 275° Charleston .....	12,500 AGL	Weekends.
<b>TENNESSEE</b>			
Campbell Co. ....	28.9 NM; 336° Volunteer.....	13,500	2 NM radius. 0800-one hr byd SS.
Chattanooga .....	13 NM; 087° Choo Choo .....	10,000	Continuous.
Clarksville, Outlaw Fld.....	Over Clarksville.....	14,000 AGL	4 NM radius. Daily SR-SS, occasional ngts.
Crossville Meml-Whitson Fld.....	11.5 NM; 335° Hitch Mountain ..	14,500	1 NM radius. Daily SR-1 hr after SS, occasional nights.
(c) Dunlap .....	30 NM; 335° Choo Choo .....	9,000	5 NM radius. SR-SS Daily.
Fort Campbell, Son Drop Zone.....	4.1 NM; 302° Clarksville.....	12,500	Daily.
Livingston Arpt .....	13 NM; 212° Livingston .....	12,500	Weekends.
(c) Paris, Henry Co. ....	44.3 NM; 357° Jacks Creek .....	13,500	5 NM radius. Daily SR-SS.
Sevierville, Seymour Airpark.....	10 NM; 133° Volunteer.....	13,500	3 NM radius. Weekends SR-SS.
(c) Somerville, Wings .....	26 NM; 210° McKellar.....	14,000 AGL	2 NM radius. Weekends 0700-SS. Occasional ngt jumps.
Tullahoma Rgnl Arpt/WM Northern Fld ...	14.1 NM; 139° Shelbyville .....	15,000	5 NM radius. SR-SS primarily weekends with occasional nights.
Whifferrill.....	25 NM; 303° Nashville	11,500	2 NM radius. Weekends SR-SS.
<b>PUERTO RICO</b>			
(c) Arecibo, Antonio/Nery/Juarbe Pol Arpt .....	25 NM; 105° Borinquen .....	12,500	0600-1800 weekends & holidays.
(c) Humacao Arpt .....	20.9 NM; 159° San Juan .....	15,000	2.5 NM radius. Weekends SR-SS, occasionally holiday SR-SS.
<b>VIRGIN ISLANDS</b>			
St. Croix, Ordinance Drop Zone.....		2,000	0700-1400 Mon-Fri. 5 NM radius from 17°49'N 064°52'W.
St. Thomas, Cyril E. King No. 1 .....	6.5 NM; 118° St. Thomas .....	15,000	
St. Thomas, Cyril E. King No. 2 .....	10.4 NM; 110° St. Thomas .....	15,000	

The purpose of this bulletin is to provide major changes in aeronautical information that have occurred since the last publication date of each Sectional Aeronautical, VFR Terminal Area, and Helicopter Route Charts listed. The general policy is to include only those changes to controlled airspace and special use airspace that present a hazardous condition or impose a restriction on the pilot, and major changes to airports and radio navigational facilities, thereby providing the VFR pilot with the essential data necessary to update and maintain chart currency. The data is grouped by type and then by effective date. When a new edition of the Aeronautical Chart is published, the corrective tabulation will be removed from this bulletin. Inasmuch as this Bulletin provides major changes only, pilots should consult the airport listing in this directory for all new information. Users of U.S. World Aeronautical Charts (WAC) and U.S. Gulf Coast VFR Aeronautical Charts should consult the appropriate Sectional and VFR Terminal Area Charts for revisions.

Military Training Routes (MTRs) are shown on Sectional Aeronautical Charts, VFR Terminal Area, and Helicopter Route Charts. Only the route centerline, direction of flight and the route designator are shown — route widths and altitudes are not shown. Since these routes are subject to change every 56 days and the charts are reissued generally every 6 months, routes with a change in the alignment of the charted route centerline will be listed in this Aeronautical Chart Bulletin below. You are advised to contact the nearest FSS for route dimensions and current status for those routes affecting your flight.

## ATLANTA SECTIONAL

### 83rd Edition, 27 Aug 2009

#### OBSTRUCTIONS

**27 Aug 2009** No Major Changes.

**22 Oct 2009** Add obst 1327' MSL (310' AGL) UC, 34°21'17"N, 87°41'54"W.

Add obst 1114' MSL (346' AGL) UC, 34°37'03"N, 82°05'12"W.

Add obst 1629' MSL (285' AGL) UC, 36°04'48"N, 84°31'00"W.

Add obst 879' MSL (296' AGL) UC, 32°54'16"N, 86°30'27"W.

Add obst 1183' MSL (227' AGL) UC, 35°04'04"N, 86°30'50"W.

Add obst 569' MSL (285' AGL) UC, 33°52'09"N, 81°07'44"W.

#### AIRPORTS

**27 Aug 2009** No Major Changes.

**22 Oct 2009** Delete POWELL arpt, 36°02'40"N, 084°00'16"W. Change CTAF 122.9 to 122.8 at ROBBINS arpt, 33°58'16"N, 86°22'49"W.

#### NAVAIDS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### AIRSPACE

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### SPECIAL USE AIRSPACE

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### MILITARY TRAINING ROUTES

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### MISCELLANEOUS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

## ATLANTA TERMINAL AREA CHART

### 80th Edition, 27 Aug 2009

#### OBSTRUCTIONS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### AIRPORTS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### NAVAIDS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### AIRSPACE

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### SPECIAL USE AIRSPACE

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### MILITARY TRAINING ROUTES

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

#### MISCELLANEOUS

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

## CG-21 WORLD AERONAUTICAL CHART

### 40th Edition, 24 Sep 2009

**OBSTRUCTIONS**

**22 Oct 2009** Add obst 1348' MSL (600' AGL), 34°15'06"N, 84°59'12"W.  
Change obst from 312' MSL to 1312' MSL, 33°35'33"N, 083°58'31"W.

**AIRPORTS**

**22 Oct 2009** Change elevation from 191' to 1911' at Blairsville arpt, 34°51'16"N, 083°59'50"W. Change runway orientation to 01/19 at Halifax-Northhampton Co Rgnl arpt, 36°19'47"N, 077°38'07"W.

**NAVAIDS**

**22 Oct 2009** No Major Changes.

**AIRSPACE**

**22 Oct 2009** No Major Changes.

**SPECIAL USE AIRSPACE**

**22 Oct 2009** No Major Changes.

**MILITARY TRAINING ROUTES**

**22 Oct 2009** No Major Changes.

**MISCELLANEOUS**

**22 Oct 2009** No Major Changes.

## CHARLOTTE SECTIONAL

### 86th Edition, 30 Jul 2009

**OBSTRUCTIONS**

**27 Aug 2009** Add obst 727' MSL (310' AGL)UC, 35°00'34"N, 79°46'48"W.

Add obst 537' MSL (310' AGL)UC, 34°02'15"N, 80°24'40"W.

Add obst 268' MSL (263' AGL)UC, 35°47'45"N, 75°33'02"W.

Add obst 1335' MSL (575' AGL)UC, 35°12'56"N, 81°45'44"W.

Add obst 404' MSL (300' AGL)UC, 34°11'08"N, 78°57'51"W.

**22 Oct 2009** Add obst 768' MSL (499' AGL)UC, 34°59'54"N, 79°15'46"W.

Add obst 656' MSL (290' AGL)UC, 35°13'03"N, 80°00'55"W.

Add obst 558' MSL (300' AGL)UC, 35°51'14"N, 78°53'39"W.

Add obst 326' MSL (310' AGL)UC, 34°51'44"N, 76°46'14"W.

Add obst 844' MSL (390' AGL)UC, 35°07'18"N, 80°20'10"W.

Add obst 365' MSL (300' AGL)UC, 34°10'08"N, 79°07'27"W.

Add obst 421' MSL (310' AGL)UC, 33°55'29"N, 79°54'56"W.

Add obst 348' MSL (275' AGL)UC, 33°44'25"N, 79°56'04"W.

Add obst 434' MSL (310' AGL)UC, 33°54'35"N, 80°01'52"W.

Add obst 1032' MSL (390' AGL)UC, 34°55'48"N, 80°38'59"W.

**AIRPORTS**

**27 Aug 2009** No Major Changes.

**22 Oct 2009** Delete RP\* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W. Delete JORDAN arpt, 33°32'23"N, 79°31'55"W.

**NAVAIDS**

**27 Aug 2009** No Major Changes.

**22 Oct 2009** Delete JOHNS ISLAND NDB, 32°42'05"N, 80°00'20"W.

**AIRSPACE**

**27 Aug 2009** Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory.

**22 Oct 2009** No Major Changes.

**SPECIAL USE AIRSPACE**

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

**MILITARY TRAINING ROUTES**

**27 Aug 2009 – 22 Oct 2009** No Major Changes.

**MISCELLANEOUS**

**27 Aug 2009 – 22 Oct 2009** No Major Changes.



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**CHARLOTTE TERMINAL AREA CHART****41st Edition, 30 Jul 2009****OBSTRUCTIONS****27 Aug 2009** Add obst 1335' MSL (575' AGL) UC, 35°12'56"N, 81°45'44"W.**22 Oct 2009** Add obst 844' MSL (390' AGL) UC, 35°07'18"N, 80°20'10"W.**AIRPORTS****27 Aug 2009** Revise Albemarle, NC Class D; That airspace extending upward from the surface to and including 3,100 feet MSL within a 5.8-mile radius of Stanly County Airport and within 1.5 miles each side of the 043 degree bearing from Stanly County Airport to 7.8 miles Northeast. This Class D airspace area is effective during the specific dates and times established in advance by a Notice to Airmen. The effective date and time will thereafter be continuously published in the Airport/Facility Directory. Revise Albemarle, NC Class E; That airspace extending upward from 700 feet above the surface within an 8-mile radius of Stanly County Airport.

Revise Albemarle, NC Class E; That airspace extending upward from 700' above the surface within an 8-mile radius of Stanly County Airport.

**22 Oct 2009** Delete RP\* at JAARS-TOWNSEND arpt, 34°51'49"N, 80°44'52"W.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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## CINCINNATI SECTIONAL 82nd Edition, 2 Jul 2009

**OBSTRUCTIONS****2 Jul 2009** No Major Changes.**27 Aug 2009** Add obst 1525' MSL (410' AGL) UC, 40°12'15"N, 82°35'03"W.

Add obst 2811' MSL (305' AGL) UC, 39°24'30"N, 79°21'41"W.

Add obst 1687' MSL (380' AGL) UC, 38°00'44"N, 82°10'09"W.

Add obst 1341' MSL (300' AGL) UC, 38°43'50"N, 81°22'53"W.

Add obst 3611' MSL (315' AGL) UC, 37°53'06"N, 80°46'24"W.

Add obst 1067' MSL (300' AGL) UC, 38°17'38"N, 82°11'57"W.

Add obst 1217' MSL (300' AGL) UC, 38°38'11"N, 81°23'43"W.

Add obst 1328' MSL (350' AGL) UC, 37°37'05"N, 84°15'43"W.

Add obst 1810' MSL (310' AGL) UC, 38°19'51"N, 79°03'36"W.

Add obst 2925' MSL (300' AGL) UC, 37°39'29"N, 80°57'29"W.

Add obst 2752' MSL (300' AGL) UC, 37°32'06"N, 80°55'20"W.

Add obst 1213' MSL (310' AGL) UC, 38°41'39"N, 83°37'34"W.

Add obst 1198' MSL (300' AGL) UC, 38°20'28"N, 82°03'56"W.

Add obst 1242' MSL (310' AGL) UC, 39°37'20"N, 82°14'33"W.

Add obst 1680' MSL (550' AGL) UC, 39°53'38"N, 79°55'58"W.

**22 Oct 2009** Add obst 1224' MSL (300' AGL) UC, 39°44'58"N, 84°23'43"W.

Add obst 1358' MSL (312' AGL) UC, 39°00'37"N, 83°34'13"W.

Add obst 1629' MSL (285' AGL) UC, 36°04'48"N, 84°31'00"W.

Add obst 3434' MSL (270' AGL) UC, 36°43'42"N, 80°27'08"W.

Add obst 1674' MSL (554' AGL) UC, 39°42'28"N, 79°57'32"W.

Add obst 1403' MSL (297' AGL) UC, 38°48'04"N, 82°57'44"W.

Add obst 3226' MSL (400' AGL) UC, 40°01'35"N, 78°48'07"W.

Add obst 3190' MSL (400' AGL) UC, 40°03'28"N, 78°48'15"W.

**AIRPORTS****2 Jul 2009** No Major Changes.**27 Aug 2009** Change CTAF 122.9 to 123.05 at MCCREARY arpt, 36°41'43"N, 84°23'29"W.**22 Oct 2009** Delete POWELL arpt, 36°02'40"N, 84°00'15"W.**NAVAIDS****2 Jul 2009 – 27 Aug 2009** No Major Changes.**22 Oct 2009** Delete LOUISA NDB, 38°01'13"N, 77°51'32"W.**AIRSPACE****2 Jul 2009** No Major Changes.**27 Aug 2009** Revise WAVERLY, OH Class E. That airspace extending upward from 700 feet above the surface within a 9.9-mile radius of Pike County Airport. Delete DAYTON Class C freq 127.65. Add DAYTON Class C freqs 118.425 and 127.225. Revise DAYTON Class C freq from 316.7 to 352.05.**22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

## CINCINNATI TERMINAL AREA CHART 21st Edition, 2 Jul 2009

**OBSTRUCTIONS****2 Jul 2009** No Major Changes.**27 Aug 2009** Add obst 1144' MSL (258' AGL) UC, 38°42'07"N, 85°22'01"W.**22 Oct 2009** No Major Changes.**AIRPORTS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.

**IFR GULF OF MEXICO  
VERTICAL FLIGHT REFERENCE CHART  
12th Edition, 20 Nov 2008**

**OBSTRUCTIONS****20 Nov 2008 – 22 Oct 2009** No Major Changes.**AIRPORTS****20 Nov 2008 – 7 May 2009** No Major Changes.

**2 Jul 2009** Add heliport (51XS) Evergreen Helicopters Pvt N29°41'43" W093°57'49".  
 Add heliport (2TA7) ERA Helicopters Sabine Base Pvt N29°43'03" W093°51'47".  
 Add heliport (TA12) ERA Petroleum Helicopters Inc Pvt N29°42'12" W093°56'42".  
 Add heliport 95XS) Air Logistics Sabine Pvt N29°42'45" W093°54'35".  
 Add heliport (7LA5) Petroleum Helicopters Cameron Pvt N29°46'37" W093°17'59".  
 Add heliport (81LA) Mobil Chevron Pvt N29°47'09" W093°19'30".  
 Add heliport (LA78) CAGC DOCK Pvt N29°47'12" W093°19'12".  
 Add heliport (24LA) ERA Helicopters Cameron Base Pvt N29°46'49" W093°17'34".  
 Add heliport (13LA) Evergreen Pvt N29°47'05" W093°12'35".  
 Add heliport (LA53) Air Logistics Pvt N29°45'43" W093°00'54".  
 Add heliport (LA09) Air Logistics Intracoastal City Pvt N29°47'02" W092°09'49".  
 Add heliport (1LA9) Chevron Intracoastal Pvt N29°46'58" W092°09'24".  
 Add heliport (2LA3) Exxon Intracoastal City Terminal Pvt N29°49'29" W092°07'58".  
 Add heliport (74LA) ERA Helicopters Pvt N29°49'20" W092°08'17".  
 Add heliport (7LS4) Petroleum Helicopters Intracoastal City Pvt N29°47'45" W092°09'00".  
 Add heliport (5LA2) Mobil Pvt N29°41'23" W091°11'40".  
 Add heliport (9LA4) Texaco Pvt N29°41'12" W091°10'18".  
 Add heliport (7LS3) Petroleum Helicopters Lake Palourde Base Pvt N29°41'36" W091°05'55".  
 Add heliport (25LA) ERA Morgan City Pvt N29°38'42" W091°07'08".  
 Add heliport (4LA4) Chevron USA Inc Pvt N29°13'18" W090°13'01".  
 Add heliport (09LA) ERA Helicopters Fourchon Helibase Pvt N29°07'28" W090°12'19".  
 Add heliport (9LA3) Air Logistics Fourchon Pvt N29°07'01" W090°12'02".  
 Add heliport (LS99) Petroleum Helicopters Fourchon Base Pvt N29°06'59" W090°12'17".  
 Add heliport (0LA7) Exxon Pvt N29°15'14" W089°57'59".  
 Add heliport (GNI) Grand Isle Pvt N29°15'46" W089°57'40".  
 Add heliport (LS08) Robert L Suggs Pvt N29°21'19" W089°26'18".  
 Add heliport (45LA) Air Logistics Venice/N Pvt N29°17'46" W089°22'21".  
 Add heliport (LS52) ERA Helicopters Venice Base Pvt N29°17'14" W089°22'04".  
 Add heliport (8LA1) Chevron USA Pvt N29°15'49" W089°21'21".  
 Add heliport (MS78) Pascagoula Refinery PAD NR1 Pvt N30°19'53" W088°30'32".  
 Add heliport (2AL4) Petroleum Helicopters Theodore Pvt N30°25'52" W088°10'45".  
**27 Aug 2009 – 22 Oct 2009** No Major Changes.

**NAVAIDS****20 Nov 2008 – 15 Jan 2009** No Major Changes.**7 May 2009** Change name and ident of SULFY (UX) NDB to SULPHUR (AUR) N30°11'54.7"N, 93°25'14.3"W.**2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****20 Nov 2008 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****20 Nov 2008** No Major Changes.**15 Jan 2009** Change W-147A TIMES USED/DAYS to: Continuous.

Change W-147C, D TIMES USED/DAYS to: Continuous.

Change W453 TIMES USED/DAYS to: Continuous, OTHER TIMES BY NOTAM;

Change TIMES USED/HOURS to: Intermittent Days.

Change W-602 TIMES USED/DAYS to Continuous.

**7 May 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****20 Nov 2008 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****20 Nov 2008 – 22 Oct 2009** No Major Changes.

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**JACKSONVILLE SECTIONAL**  
**84th Edition, 27 Aug 2009****OBSTRUCTIONS****27 Aug 2009** No Major Changes.**22 Oct 2009** Add obst 632'MSL (622'AGL)UC, 27°55'55"N, 82°24'04"W.  
Add obst 487'MSL (473'AGL)UC, 31°46'58"N, 81°26'27"W.**AIRPORTS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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**MEMPHIS SECTIONAL**  
**83rd Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** Add obst 505'MSL (328'AGL), 34°21'56"N, 90°38'14"W.

Add obst 798'MSL (420'AGL)UC, 32°05'24"N, 90°39'59"W.

Add obst 979'MSL (499'AGL)UC, 34°13'53"N, 93°16'47"W.

Add obst 495'MSL (330'AGL)UC, 33°39'16"N, 92°40'34"W.

Add obst 945'MSL (645'AGL)UC, 33°38'59"N, 93°48'43"W.

**AIRPORTS****22 Oct 2009** Add RP 35 to TUNICA MUNI arpt, 34°41'06"N, 90°20'52"W.**NAVAIDS****22 Oct 2009** Shutdown PINHOOK NDB, 35°15'14"N, 88°12'15"W. Change bearing 294° to 293° from HAMILTON VORTAC(HAB) 34°11'42"N, 88°00'45"W.**AIRSPACE****22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Oct 2009** Change MEF 1° to 1° in quadrant 33°30'00"-34°00'00"N, 93°30'00"-94°00'00"W.

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**MEMPHIS TERMINAL AREA CHART**  
**41st Edition, 24 Sep 2009****OBSTRUCTIONS****22 Oct 2009** No Major Changes.**AIRPORTS****22 Oct 2009** Add RP 35 to TUNICA MUNI arpt, 34°41'06"N, 90°20'52"W.**NAVAIDS****22 Oct 2009** No Major Changes.**AIRSPACE****22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009** No Major Changes.

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**MIAMI SECTIONAL**  
**85th Edition, 27 Aug 2009****OBSTRUCTIONS****27 Aug 2009** No Major Changes.**22 Oct 2009** Add obst 306' MSL (250' AGL) UC, 27°39'56"N, 81°22'11"W.  
Add obst 632' MSL (622' AGL) UC, 27°55'55"N, 82°24'04"W.**AIRPORTS****27 Aug 2009** No Major Changes.**22 Oct 2009** Delete COXS HAMMOCK arpt, 27°04'18"N, 80°31'12"W.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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**MIAMI TERMINAL AREA CHART**  
**74th Edition, 27 Aug 2009****OBSTRUCTIONS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRPORTS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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**NEW ORLEANS SECTIONAL**  
**84th Edition, 4 Jun 2009****OBSTRUCTIONS****2 Jul 2009** Add obst 400' MSL (380' AGL), 30°16'18"N, 87°34'27"W.

Add obst 893' MSL (305' AGL), 32°04'34"N, 89°04'34"W.

Add obst 1000' MSL (551' AGL), 31°36'32"N, 89°25'44"W.

Add obst 603' MSL (318' AGL), 31°38'42"N, 90°12'53"W.

Add obst 725' MSL (349' AGL), 31°07'43"N, 90°46'11"W.

Add obst 949' MSL (620' AGL), 31°15'30"N, 89°55'59"W.

Add obst 508' MSL (490' AGL), 30°34'00"N, 87°13'37"W.

Add obst 497' MSL (305' AGL), 31°22'14"N, 88°15'01"W.

**27 Aug 2009** Add obst 289' MSL (230' AGL), 30°34'24"N, 90°35'30"W.

Add obst 983' MSL (498' AGL), 31°26'02"N, 90°34'46"W.

Add obst 745' MSL (420' AGL), 31°35'40"N, 89°58'56"W.

Add obst 434' MSL (315' AGL), 31°00'49"N, 89°47'46"W.

**22 Oct 2009** Add obst 599' MSL (310' AGL), 31°30'06"N, 86°22'13"W.

Add obst 793' MSL (420' AGL), 31°30'09"N, 86°42'18"W.

Add obst 695' MSL (420' AGL), 31°44'23"N, 87°11'14"W.

Add obst 964' MSL (420' AGL), 31°49'30"N, 89°54'01"W.

**AIRPORTS****2 Jul 2009** No Major Changes.**27 Aug 2009** Delete PIKER-TOO, 31°00'42"N, 90°58'05"W.

Delete WATSON, 30°57'09"N, 85°25'02"W.

**22 Oct 2009** No Major Changes.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009** No Major Changes.**22 Oct 2009** Change TYNDALL AFB ATCT frequency from 384.4 to 263.15, 30°04'12"N, 85°34'35"W.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009** No Major Changes.**27 Aug 2009** IR 15 Revise ceiling from 20 MSL to 50 MSL from Point D to Point H.**22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009** No Major Changes.**27 Aug 2009** Change MEF 1° TO 1° in quadrant 31°00'-31°30'N, 89°30'-90°00'W.**22 Oct 2009** No Major Changes.

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**ORLANDO TERMINAL AREA CHART**  
**39th Edition, 27 Aug 2009****OBSTRUCTIONS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRPORTS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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**PUERTO RICO–VIRGIN ISLAND TERMINAL AREA CHART**  
**36th Edition, 22 Oct 2009****OBSTRUCTIONS****22 Oct 2009** No Major Changes.**AIRPORTS****22 Oct 2009** No Major Changes.**NAVAIDS****22 Oct 2009** No Major Changes.**AIRSPACE****22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****22 Oct 2009** No Major Changes.**MISCELLANEOUS****22 Oct 2009** No Major Changes.

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**ST. LOUIS SECTIONAL**  
**80th Edition, 2 Jul 2009****OBSTRUCTIONS****2 Jul 2009** No Major Changes.**27 Aug 2009** Add obst 1144' MSL (258' AGL) UC, 38°42'07"N, 85°22'02"W.

Add obst 1328' MSL (350' AGL) UC, 37°37'05"N, 84°15'43"W.

Add obst 865' MSL (304' AGL) UC, 37°22'45"N, 88°39'47"W.

Add obst 1265' MSL (290' AGL) UC, 37°32'46"N, 90°12'37"W.

Add obst 560' MSL (260' AGL) UC, 36°40'24"N, 89°58'57"W.

Add obst 995' MSL (260' AGL) UC, 39°04'38"N, 90°50'02"W.

Add obst 792' MSL (270' AGL) UC, 37°38'14"N, 87°38'10"W.

Add obst 865' MSL (306' AGL) UC, 39°12'53"N, 87°20'48"W.

**22 Oct 2009** Add obst 1224' MSL (300' AGL) UC, 39°44'58"N, 84°23'43"W.

Add obst 1629' MSL (285' AGL) UC, 36°04'48"N, 84°31'00"W.

Add obst 916' MSL (258' AGL) UC, 40°03'49"N, 87°42'44"W.

Add obst 934' MSL (520' AGL) UC, 38°06'35"N, 90°15'30"W.

Add obst 1197' MSL (260' AGL) UC, 37°44'20"N, 90°30'11"W.

Add obst 1025' MSL (275' AGL) UC, 37°21'50"N, 90°41'52"W.

Add obst 797' MSL (330' AGL) UC, 36°34'10"N, 88°50'13"W.

Add obst 754' MSL (320' AGL) UC, 36°47'55"N, 88°30'22"W.

**AIRPORTS****2 Jul 2009** No Major Changes.**27 Aug 2009****27 Aug 2009** Change CAPE GIRARDEAU ATCT freq 119.0 to 125.525, 37°13'31"N, 89°34'15"W.

Change CTAF 119.0 to 125.525 at CAPE GIRARDEAU arpt, 37°13'31"N, 89°34'15"W.

Delete O'NEAL arpt, 38°41'29"N, 87°33'08"W.

Change CTAF 122.9 to 123.05 at MC CREARY CO arpt, 36°41'43"N, 84°23'29"W.

Delete HEMP RIDGE arpt, 38°09'11"N, 85°07'08"W.

Delete SMITH arpt, 39°18'47"N, 90°16'40"W.

**22 Oct 2009** Delete CLARK arpt, 40°11'40"N, 86°31'23"W.

Delete POWELL arpt, 36°02'40"N, 84°00'16"W.

Delete HIGGINBOTHAM arpt, 39°20'29"N, 87°31'53"W.

**NAVAIDS****2 Jul 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****2 Jul 2009** No Major Changes.**27 Aug 2009** Revise MOUNT STERLING, IL CLASS E: That airspace extending upward from 700 feet above the surface within a 6.6-mile radius of Mount Sterling Municipal Airport. Delete DAYTON Class C freq 127.65. Add DAYTON Class C freqs 118.425 and 127.225. Revise DAYTON Class C freq from 316.7 to 352.05.**22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****2 Jul 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****2 Jul 2009 – 22 Oct 2009** No Major Changes.



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**TAMPA TERMINAL AREA CHART**  
**39th Edition, 27 Aug 2009****OBSTRUCTIONS****27 Aug 2009** No Major Changes.**22 Oct 2009** Add obst 632' MSL (622' AGL) UC, 27°55'55"N, 82°24'04"W.**AIRPORTS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**NAVAIDS****27 Aug 2009 – 22 Oct 2009** No Major Changes.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

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**WASHINGTON SECTIONAL**  
**86th Edition, 30 Jul 2009****OBSTRUCTIONS****27 Aug 2009** No Major Changes.**22 Oct 2009** Add obst 588' MSL (421' AGL) UC, 37°35'09"N, 77°15'47"W.

Add obst 434' MSL (400' AGL) UC, 36°26'12"N, 76°43'25"W.

Add obst 3226' MSL (400' AGL) UC, 40°01'35"N, 78°48'07"W.

Add obst 369' MSL (309' AGL) UC, 37°24'37"N, 76°32'51"W.

**AIRPORTS****27 Aug 2009** No Major Changes.**22 Oct 2009** Delete BOLLING AFB heliport, 38°50'34"N, 77°00'58"W.**NAVAIDS****27 Aug 2009** No Major Changes.**22 Oct 2009** Delete LOUISA NDB, 38°01'14"N, 77°51'33"W.**AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**SPECIAL USE AIRSPACE****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MILITARY TRAINING ROUTES****27 Aug 2009 – 22 Oct 2009** No Major Changes.**MISCELLANEOUS****27 Aug 2009 – 22 Oct 2009** No Major Changes.

## SUPPLEMENTAL COMMUNICATION REFERENCE

Contained within this tabulation, and listed alphabetically by airport name, are all private-use airports charted on the U.S. IFR Enroute Low and High Altitude charts in the United States, having terminal approach and departure control facilities. Additionally, listed by country, are all Canadian and Mexican airports that appear on the U.S. IFR Enroute charts with approach and departure control services. All frequencies transmit and receive unless otherwise noted. Radials defining sectors are outbound from the facility.

## UNITED STATES

FACILITY NAME	CHART & PANEL
<b>Frankfort, IL (LL40)</b>	L-28H
Chicago App/Dep Con 133.1 285.6	
<b>Glasgow Industrial, MT (Ø7MT)</b>	H-1E, 2F, L-13D
Salt Lake Center App/Dep Con 126.85 305.2	
<b>USAF Academy Bullseye Aux Airstrip, CO (C09Ø)</b>	L-10F
ASOS 118.325	
<b>West Kentucky Airpark, KY (5KY3)</b>	L-16I
Memphis Center App/Dep Con 133.65 292.15	
<b>William P Gwinn, FL (Ø6FA)</b>	H-8I, L-23C
Gwinn Tower 120.4 314.6 (Mon-Fri 1300-2100Z‡)	
Gnd Con 121.65 279.25	

## CANADA

FACILITY NAME	CHART & PANEL
<b>Abbotsford, BC (CYXX)</b>	H-1B, L-12F
ATIS 119.8 (1500-Ø700Z‡)	
Victoria Trml App/Dep Con 132.7 (Avbl on ground) 290.8	
Tower 119.4 (Inner) 121.0 (Outer) 295.0 (1500-Ø700Z‡) Gnd Con 121.8	
MF 119.4 295.0 (Ø700-1500Z‡) (Shape irregular to 4500')	
<b>Amos/Magny, QC (CYEY)</b>	H-11B
Montreal Center App/Dep Con 125.9	
<b>Atikokan Muni, ON (CYIB)</b>	L-14I
MF 122.3 (5 NM to 4500' No ground station)	
<b>Barrie-Orillia (Lake Simcoe Rgnl), ON (CNB9)</b>	H-11B, L-31D
AWOS 122.55 (Pvt)	
Toronto Center App/Dep Con 124.025	
<b>Bar River, ON (CPF2)</b>	L-31C
Toronto Center App/Dep Con 132.65	
<b>Bathurst, NB (CZBF)</b>	L-32J
Moncton Center App/Dep Con 134.25	
<b>Boundary Bay, BC (CZBB)</b>	H-1B, L-1E
ATIS 125.5 (1500-Ø700Z‡)	
Vancouver App/Dep Con 132.3 363.8	
Tower 118.1 (Inner) 127.6 (Outer) (1500-Ø700Z‡) Gnd Con 124.3	
MF 118.1 (Ø700-1500Z‡ to 2000'. Vancouver Trml 125.2 above 2000'. Shape irregular to 2500'.)	
<b>Brampton, ON (CNC3)</b>	L-31D
Toronto Trml App/Dep Con 119.3 253.1	
<b>Brandon Muni, MB (CYBR)</b>	H-2H
Winnipeg Center App/Dep Con 132.25 285.4	
MF 122.1 (5 NM to 4000')	
<b>Brantford, ON (CYFD)</b>	L-31D
Toronto Trml App/Dep Con 128.27	
<b>Brockville-Thousand Islands Rgnl Tackaberry, ON (CNL3)</b>	L-32G
Montreal Center App/Dep Con 134.675	
<b>Bromont, QC (CZBM)</b>	L-32G
Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM to 3400')	
<b>Burlington Airpark, ON (CZBA)</b>	L-31D
Toronto Center App/Dep Con 119.3 253.1	
<b>Castlegar, BC (CYCG)</b>	H-1C
Vancouver Center App/Dep Con 134.2 227.3	
MF 122.1 (5 NM to 6500')	
<b>Centralia/James T. Fld Muni, ON (CYCE)</b>	H-10G, 11B, L-31D
Toronto Center App/Dep Con 135.30	
<b>Charlottetown, PE (CYYG)</b>	H-11E, L-32J
Moncton Center App/Dep Con 135.65 384.8 MF 118.0 (5 NM to 3200')	
<b>Chatham-Kent, ON (CNZ3)</b>	H-10G, L-30G
Cleveland Center App/Dep Con 132.25	

FACILITY NAME	CHART & PANEL
<b>Collingwood, ON (CNY3)</b> Toronto Center App/Dep Con 124.02	H-11B, L-31D
<b>Cornwall Rgnl, ON (CYCC)</b> Boston Center App/Dep Con 135.25 377.1	L-32G
<b>Cranbrook/Canadian Rockies Intl, BC (CYXC)</b> Vancouver Center App/Dep Con 133.6 MF 122.3 (5 NM to 6100')	H-1C
<b>Debert, NS (CCQ3)</b> Halifax Trml App/Dep Con 119.2	H-11E, L-32J
<b>Digby, NS (CYID)</b> Moncton Center App/Dep Con 123.9	L-32J
<b>Downsview, ON (CYZD)</b> Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 MF 126.2 (3 NM to 1900')	H-11B, L-31E
<b>Drummondville, QC (CSC3)</b> Montreal Center App/Dep Con 132.35	L-32H
<b>Earlton (Timiskaming Rgnl), ON (CYXR)</b> MF 122.0 (5 NM to 3800') AWOS 128.6	H-11B
<b>Elliot Lake Muni, ON (CYEL)</b> Toronto Center App/Dep Con 135.4	L-31C
<b>Fort Frances Muni, ON (CYAG)</b> Minneapolis Center App/Dep Con 120.9	L-14H
<b>Fredericton Intl, NB (CYFC)</b> ATIS 127.55 Moncton Center App/Dep Con 124.3 135.5 270.8 Cinc Del 121.7 (Ltd hrs) MF 119.0 (5 NM to 3500')	H-11E, L-32I
<b>Goderich, ON (CYGD)</b> Toronto Center App/Dep 135.3 266.3	H-11B, L-31D
<b>Greenwood, NS (CYZX)</b> ATIS 128.85 244.3 (1100-0000Z) App/Dep Con 120.6 335.9 Tower 119.5 126.2 236.6 324.3 Gnd Con 133.75 289.4 Cinc Del 128.05 283.9	H-11E, L-32J
<b>Grimsby Air Park, ON (CNZ8)</b> Toronto Trml App/Dep Con 128.27 268.75 Tower 125.0 308.475	L-31E
<b>Halifax/Shearwater, NS (CYAW)</b> ATIS 129.175 (Ltd hrs) App/Dep Con 119.2 Tower 119.0 126.2 340.2 360.2 (Ltd hrs) Gnd Con 121.7 250.1	H-11E, L-32J
<b>Halifax/Stanfield Intl, NS (CYHZ)</b> ATIS 121.0 Moncton Center App/Dep Con 118.7 119.2 128.55 135.3 225.2 363.8 Tower 118.4 236.6 Gnd Con 121.9 275.8 Cinc Del 123.95 Apron Advisory 122.125	H-11E, L-32J
<b>Hamilton, ON (CYHM)</b> ATIS 128.1 Toronto Trml App/Dep Con 128.27 268.75 Tower 119.7 125.0 Gnd Con 121.6	H-10H, 11B, L-11B
<b>Kingston, ON (CYGK)</b> Montreal Center App/Dep Con 135.05 398.4 (0400-1115Z) MF 122.5 (1115-0400Z $\pm$ 5 NM to 3300')	H-11C, L-31E, 32F
<b>Kitchener/Waterloo, ON (CYKF)</b> ATIS 125.1 (1200-0400Z $\pm$ ) Toronto Trml App/Dep Con 128.275 Waterloo Tower 126.0 118.55 (1200-0400Z $\pm$ ) Gnd Con 121.8 MF 126.0 (0400-1200Z $\pm$ 5 NM to 4000')	H-11B, L-31D
<b>Lachute, QC (CSE4)</b> Montreal Center App Con 124.65 132.85 268.3 Montreal Center Dep Con 132.85 268.3	L-32G
<b>La Tuque, QC (CYLQ)</b> Montreal Center App/Dep Con 134.5	H-11C
<b>Langley, BC (CYNJ)</b> ATIS 124.5 (1630-0230Z, DT 1530-0330Z) Victoria Trml 132.7 290.8 Tower 119.0 (1630-0230Z, DT 1530-0330Z) Gnd Con 121.9 MF 119.0 (0230-1630Z, DT 0330-1530Z 3 NM to 1900')	L-1E

FACILITY NAME	CHART & PANEL
<b>Leamington, ON</b> (CLM2) Cleveland Center App/Dep Con 132.45	L-30F
<b>Lethbridge, AB</b> (CYQL) ATIS 124.4 (1300-0545Z‡) Edmonton Center App/Dep Con 132.75 265.2 MF 121.0 (5 NM to 6000')	H-1D
<b>Lindsay, ON</b> (CNF4) Toronto Center App/Dep 134.25	L-31E, L-32F
<b>Liverpool/South Shore Rgnl, NS</b> (CYAU) Moncton Center App/Dep Con 123.9	L-32J
<b>London, ON</b> (CYXU) ATIS 127.8 (1120-0345Z‡) Toronto Center App/Dep 135.3 135.625 Tower 119.4 125.65 (1120-0345Z‡) Gnd Con 121.9 MF 119.4 (0345-1120Z‡ 5 NM to 3000')	H-10G, 11B, L-30G, 31D
<b>Manitowaning/Manitoulin East Muni, ON</b> (CYEM) Toronto Center App/Dep 135.4 260.9	L-31C
<b>Maniwaki, QC</b> (CYMW) Montreal Center App/Dep Con 126.57	L-32G
<b>Mascouche, QC</b> (CSK3) MF 122.35 (5 NM to 2500'. No gnd station. Excluding the portion S of the N shore of Riviere des Milles-Iles and 1 NM around Lac Agile Mascouche arpt.)	L-32G
<b>Medicine Hat, AB</b> (CYXH) AWOS 124.875 (0345-1245Z‡) MF 122.2 (1245-0345Z‡ 5 NM to 5400')	H-1D
<b>Midland/Huron, ON</b> (CYEE) Toronto Center App/Dep 124.025	L-31D
<b>Miramichi, NB</b> (CYCH) Moncton Center App/Dep Con 123.7	H-11E, L-32J
<b>Moncton/Greater Moncton Intl, NB</b> (CYQM) ATIS 128.65 App/Dep 124.4 Tower 120.8 236.6 Gnd Con 121.8 275.8 Apron Advisory 122.075	H-11E, L-32J
<b>Mont-Laurier, QC</b> (CSD4) Montreal Center App/Dep Con 126.57	L-32G
<b>Montreal Intl (Mirabel), QC</b> (CYMX) ATIS 125.7 Montreal Center App Con 124.65 132.85 268.3 Montreal Dep Con 132.85 MF 119.1 (7 NM shape irregular to 2000') VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/Pierre Elliott Trudeau Intl, QC</b> (CYUL) ATIS 133.7 Montreal Trml App Con 118.9 124.65 126.9 132.85 268.3 Tower 119.9 267.1 Gnd Con 121.9 275.8 Cinc Del 125.6 Apron 122.075 Montreal Trml Dep Con 118.9 (SE-S-SW) 124.65 268.3 (W-NW-NE) VFR Advisory 134.15	H-11C, 12K, L-32G
<b>Montreal/St-Hubert, QC</b> (CYHU) ATIS 124.9 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) AWOS 124.9 Montreal Center App/Dep Con 125.15 268.3 St. Hubert Tower 118.4 (Apr-Oct 1045-0500Z‡, Nov-Mar 1045-0400Z) Gnd Con 126.4 MF 118.4 (Apr-Oct 0500-1045Z‡, Nov-Mar 0400-1045Z 5 NM shape irregular to 2500') VFR Advisory 134.15	H-11C, L-32G
<b>Muskoka, ON</b> (CYQA) AWOS 124.575 MF 122.3 (5 NM to 3900')	H-11B, L-31D
<b>Nanaimo, BC</b> (CYCD) Victoria Trml App/Dep 120.8 133.95 252.3 MF 122.1 1330-0530Z‡ (5 NM to 2500')	H-1B, L-1E
<b>North Bay, ON</b> (CYYB) ATIS 124.9 (1130-0300Z‡) Toronto Center App/Dep 121.225 127.25 MF 118.3 (1130-0330Z‡ 7 NM to 5000')	H-11B, L31D
<b>Oshawa, ON</b> (CYYO) ATIS 125.675 (1130-0330Z‡) Toronto Trml App Con 133.4 Tower 120.1 (1130-0330Z‡) Gnd Con 118.4 Toronto Trml Dep Con 133.4 MF 120.1 (0330-1130Z‡ 5 NM to 3000')	L-31E

FACILITY NAME	CHART & PANEL
<b>Ottawa/Carp, ON (CYRP)</b> ATIS 121.15 Ottawa Trml App/Dep Con 128.175 252.5	L-31E, 32F
<b>Ottawa/Batineau, QC (CYND)</b> Ottawa Trml App/Dep Con 127.7 128.175 252.5 MF 122.3 (5 NM shape irregular to 2500') VFR Advisory Ottawa Trml 127.7	H-11C, L-32G
<b>Ottawa/MacDonald-Cartier Intl, ON (CYOW)</b> ATIS 121.15 Ottawa App Con 135.15 Tower 118.8 120.1 341.3 Gnd Con 121.9 Clnc Del 119.4 Ottawa Dep Con 128.175	L-11C
<b>Owen Sound/Billy Bishop Rgnl, ON (CYOS)</b> Toronto Center App/Dep 132.575 290.6	L-31D
<b>Pelee Island, ON (CYPT)</b> Cleveland Center App/Dep Con 126.35 360.0	L-30F
<b>Pembroke, ON (CYTA)</b> Montreal Center App/Dep Con 135.2 Petawawa Advisory 126.4 250.1 (Mon-Fri 1300-2130Z†, OT PPR)	H-11C, L-31E, 32F
<b>Penticton, BC (CYPF)</b> Vancouver Center App/Dep Con 133.5 351.3 MF 118.5 (5 NM to 4100')	H-1B
<b>Peterborough, ON (CYPQ)</b> AWOS 126.925 Toronto Center App/Dep 134.25	H-11B, L-31E, 32F
<b>Pincher Creek, AB (CZPC)</b> Edmonton Center App/Dep Con 132.75 265.2	H-1D
<b>Pitt Meadows, BC (CYPK)</b> ATIS 125.0 (1500-0700Z†) Vancouver Center App Con 128.6 352.7 (Outer) Pitt Tower 126.3 (1500-0700Z†) Gnd Con 123.8 Vancouver Center Dep Con 132.3 363.8 (South) MF 126.3 (0700-1500Z†) (3NM to 2500')	L-1E
<b>Quebec/Jean Lesage Intl, QC (CYQB)</b> ATIS 134.6 Montreal Center App/Dep Con 124.0 127.85 135.025 270.9 322.8 (185.65 Quebec Twr VFR acft at or below 3000') Tower 118.65 236.6 Gnd Con 121.9 250.0	H-11D, L-32H
<b>Riviere Du Loup, QC (CYRI)</b> AWOS 122.025 (Pvt) Montreal Center App/Dep Con 125.1 299.6	H-11D
<b>Rouyn Noranda, QC (CYUY)</b> Montreal Center App/Dep Con 125.9 MF 122.2 (5 NM to 4000')	H-11B
<b>Saint John, NB (CYSJ)</b> Moncton Center App/Dep Con 124.3 135.5 270.8 MF 118.5 (5 NM to 3400')	H-11E, L-32J
<b>Sarnia (Chris Hadfield), ON (CYZR)</b> Toronto Center 134.375	H-10G, 11B, L-30F
<b>Sault Ste Marie, ON (CYAM)</b> ATIS 133.05 (1300-0100Z†) Toronto Center App/Dep Con 132.65 344.5 Tower 118.8 (1300-0100Z†) Gnd Con 121.7 MF 118.8 (0100-1300Z† 5 NM irregular shape to 3000')	H-2K, L-31B
<b>Sherbrooke, QC (CYAM)</b> AWOS 126.25 Montreal Center App/Dep Con 132.55 MF 123.5 (Ltd hrs 5 NM to 3800')	H-11D, L-32H
<b>South Renfrew Muni, ON (CNP3)</b> Montreal Center App/Dep 124.275	L-31E, 32F
<b>Southport, MB (CYPG)</b> ATIS 120.85 (Mon-Fri 1400-2300Z† except holidays) Tower 126.2 384.2 (Mon-Fri 1400-2300Z† except holidays) Gnd Con 121.7 275.8	H-2H

FACILITY NAME	CHART & PANEL
<b>Springwater Barrie Airport, ON (CNA3)</b> Toronto Center App/Dep Con 124.025	L-31D
<b>St. Catharines/Niagara District, ON (CYSN)</b> ATIS 128.525 (1215-0200Z) Toronto Trml App/Dep Con 133.4 253.1 MF 123.25 (1215-0200Z± 5 NM to 3300')	H-10H, 11B, L-31E
<b>St. Frederic, QC (CSZ4)</b> Montreal Center App/Dep Con 135.025 270.9	L-32H
<b>St. Georges, QC (CYSG)</b> Montreal Center App/Dep Con 132.35 MF 122.15 (5 NM 3900' ASL)	H-32H, L-11D
<b>St. Jean, QC (CYJN)</b> Montreal Center App/Dep Con 125.15 268.3 Tower 118.2 (Apr-Oct 1230-0230Z± Nov-Mar 1300-0200Z) Gnd Con 121.7	L-32G
<b>Sudbury, ON (CYSB)</b> ATIS 127.4 Toronto Center App/Dep Con 135.5 MF 125.5 (7 NM to 4000')	H-31B, 10G, L-31D
<b>Summerside, PE (CYSU)</b> AWOS 122.55 (Pvt) Moncton Center App/Dep Con 124.4 384.8	H-11E, L-32J
<b>Thunder Bay, ON (CYQT)</b> ATIS 128.8 (1100-0400Z) Winnipeg Center App/Dep Con 132.125 (0400-1100Z) Tower 118.1 (1100-0400Z) Gnd Con 121.9 App/Dep 119.2 MF 118.1 (0400-1100Z± 5 NM to 4000')	H-2J, L-14J
<b>Timmins, ON (CYTS)</b> ATIS 124.95 (1000-0500Z) Toronto Center App/Dep Con 128.3 226.3 MF 122.3 (5 NM to 4000')	H-11B
<b>Toronto/Buttonville Muni, ON (CYKZ)</b> ATIS 127.1 (1200-0400Z) Toronto Center App Con 133.4 Toronto Center Dep Con 133.4 Tower 124.8 119.9 (1200-0400Z) Gnd Con 121.8 MF 124.8 (0400-1200Z± No gnd station. 5 NM shape irregular to below 2500')	L-31E
<b>Toronto/City Centre, ON (CYTZ)</b> ATIS 133.6 (1130-0400Z) App Con 133.4 Dep Con 133.4 Tower 118.2 119.2 226.5 (1130-0400Z) Gnd Con 121.7	L-31E
<b>Toronto/Lester B Pearson Intl, ON (CYYZ)</b> ATIS 120.825 App Con 124.475 125.4 132.8 Dep Con 127.575 128.8 Tower 118.35 118.7 Gnd Con 118.0 119.1 121.65 121.9 Cinc Del 121.3 (1200-0400Z) VFR Advisory 119.3 133.4	H-11B, L-31D
<b>Trenton, ON (CYTR)</b> ATIS 135.45 257.7 App/Dep Con 128.4 324.3 Tower 128.7 236.6 Gnd Con 121.9 275.8 Cinc Del 124.35 286.4	H-11C, L-31E, 32F
<b>Trenton/Mountain View, ON (CPZ3)</b> Trenton Mil Advisory 268.0	H-11C, L-31E, 32F
<b>Trois-Rivieres, QC (CYRQ)</b> Montreal Center App/Dep Con 128.225 229.2 MF 123.0 (5 NM to 3200')	H-11C, L-32H
<b>Val-D'or, QC (CYVO)</b> Montreal Center App/Dep Con 125.9 308.3 MF 118.5 (1030-0325Z± 5 NM to 4000')	H-11B
<b>Vancouver Intl, BC (CYVR)</b> ATIS 124.6 124.75 App Con 128.6 128.17 352.7 (Outer) 133.1 134.225 352.7 (Inner) Dep Con 126.125 (north) 132.3 (south) 363.8 Tower 118.7 (south) 119.55 (north) VFR 124.0 125.65 226.5 236.6 Gnd Con 121.7 (south) 127.15 (north) 275.8 Cinc Del 121.4	H-1B, L-1E

FACILITY NAME	CHART & PANEL
<b>Victoria Intl, BC (CYYJ)</b> ATIS 118.8 (1400-0800Z‡) App Con 125.95 308.4 Dep Con 133.85 308.4 Tower 119.1 (Outer) 119.7 (Inner) 239.6 Gnd Con 121.9 361.4 (1400-0800Z‡ OT ctc Kamloops 119.7) Cinc Del 126.4 (1400-0800Z‡)	H-1B, L-1E
<b>Victoriaville, QC (CSR3)</b> Montreal Center App Con 132.35	L-32H
<b>Waterville/Kings Co Muni, NS (CCW3)</b> Greenwood Trml App/Dep Con 120.6 335.9 Greenwood Tower 119.5 324.3	L-32J
<b>Warton, ON (CYVY)</b> Toronto Center App/Dep Con 132.575 MF 122.2 (5 NM to 3700')	H-11B, L-31D
<b>Windsor, ON (CYQG)</b> ATIS 134.5 (1130-0330Z‡) Detroit App/Dep Con 126.85 127.5 134.3 348.3 363.2 Tower 124.7 (1130-0330Z‡) Gnd Con 121.7 MF 124.7 (0330-1130Z‡ 6 NM irregular shape to below 3000') VFR Advisory Detroit App Con 134.3	H-10G, L-8J
<b>Yarmouth, NS (CYQI)</b> Moncton Center App/Dep Con 123.9 368.5 MF 123.0 (5 NM to 3100')	H-11E, L-32I

## MEXICO

FACILITY NAME	CHART & PANEL
<b>Abraham Gonzalez Intl (MMCS)</b> Juarez App Con 119.9 Juarez Tower 118.9	H-4K, L-6F
<b>Del Norte Intl (MMAN)</b> ATIS 127.55 (1300-0300Z‡) Monterrey App 119.75 120.4 Tower 118.6	H-7B, L-20G
<b>Durango Intl (MMDO)</b> ATIS 132.1 Tower 118.1 Durango Info 122.3	H-7A
<b>General Abelardo L Rodriguez Intl (MMTJ)</b> ATIS 127.9 Tijuana App Con 119.5 120.3 Tijuana Tower 118.1 Cinc Del 122.35 Tijuana Info 132.1	H-4H, L-4H
<b>General Lucio Blanco Intl (MMRX)</b> Reynosa App Con 118.8 Reynosa Tower 118.8	H-7B, L-20H
<b>General Mariano Escobedo Intl (MMMY)</b> ATIS 127.7 Monterrey App Con 119.75 120.4 Monterrey Tower 118.1 Gnd Con 121.9	H-7B, L-20G
<b>General R Fierro Villalobos Intl (MMCU)</b> ATIS 127.9 Chihuahua App Con 121.0 Chihuahua Tower 118.4	L-6I
<b>General Rodolfo Sanchez Taboada Intl (MMML)</b> ATIS 127.6 Mexicali App Con 118.2 Mexicali Tower 118.2 Mexicali Info 123.9 122.3	H-4H, L-4J, 5A
<b>General Servando Canales (MMMA)</b> Matamoros App Con 118.0 Matamoros Tower 118.0	H-7C, L-21A
<b>Plan De Guadalupe Intl (MMIO)</b> Saltillo App Con 127.4 Saltillo Tower 118.4	H-7B
<b>Quetzalcoatl Intl (MMNL)</b> Nuevo Laredo App Con 118.3 Nuevo Laredo Tower 118.3	H-7B, L-20G
<b>Torreon Intl (MMTC)</b> App Con 119.6 Tower 118.5	H-7A









In support of the Federal Aviation Administration's Runway Incursion Program, selected towered airport diagrams have been published in the Airport Diagram section of the A/FD. Diagrams will be listed alphabetically by associated city and airport name. Airport diagrams, depicting runway and taxiway configurations, will assist both VFR and IFR pilots in ground taxi operations. The airport diagrams in this publication are the same as those published in the U.S. Terminal Procedures Publications. For additional airport diagram legend information see the U.S. Terminal Procedures Publication.

NOTE: Some text data published under the individual airport in the front portion of the A/FD may be more current than the data published on the Airport Diagrams. The airport diagrams are updated only when significant changes occur.

## GENERAL INFORMATION





### PILOT CONTROLLED AIRPORT LIGHTING SYSTEMS

Available pilot controlled lighting (PCL) systems are indicated as follows:

1. Approach lighting systems that bear a system identification are symbolized using negative symbology, e.g., , , .
2. Approach lighting systems that do not bear a system identification are indicated with a negative "0" beside the name. A star (★) indicates non-standard PCL, consult the individual airport in the front portion of the A/FD, e.g., ★. To activate lights use frequency indicated in the communication section of the chart with a  or the appropriate lighting system identification e.g., UNICOM 122.8 , , .

<u>KEY MIKE</u>	<u>FUNCTION</u>
7 times within 5 seconds	Highest intensity available
5 times within 5 seconds	Medium or lower intensity (Lower REIL or REIL-off)
3 times within 5 seconds	Lowest intensity available (Lower REIL or REIL-off)

### CHART CURRENCY INFORMATION

FAA procedure amendment number  Amdt 11A 99365  Date of latest change  
 Orig 00365 

The Chart Date identifies the Julian date the chart was added to the volume or last revised for any reason. The first two digits indicate the year, the last three digits indicate the day of the year (001 to 365/6) in which the latest addition or change was first published.

The Procedure Amendment Number precedes the Chart Date, and changes any time instrument information (e.g., DH, MDA, approach routing, etc.) changes. Procedure changes also cause the Chart Date to change.

### MISCELLANEOUS

- ★ Indicates a non-continuously operating facility, see the individual airport in the front portion of the A/FD.
- # Indicates control tower temporarily closed UFN.

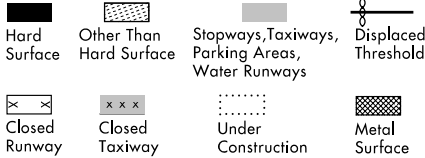


09071  
LEGEND

INSTRUMENT APPROACH PROCEDURES (CHARTS)

AIRPORT DIAGRAM

Runways



**ARRESTING GEAR:** Specific arresting gear systems; e.g., BAK12, MA-1A etc., shown on airport diagrams, not applicable to Civil Pilots. Military Pilots refer to appropriate DOD publications.



**ARRESTING SYSTEM**

**REFERENCE FEATURES**

Buildings.....	■
Tanks.....	●
Obstructions.....	▲
Airport Beacon #.....	☆
Runway	
Radar Reflectors.....	▼
Control Tower #.....	■
Hot Spot.....	○

# When Control Tower and Rotating Beacon are co-located, Beacon symbol will be used and further identified as TWR.

Runway length depicted is the physical length of the runway (end-to-end, including displaced thresholds if any) but excluding areas designated as stopways.

A **D** symbol is shown to indicate runway declared distance information available, see appropriate A/FD, Alaska or Pacific Supplement for distance information.

Runway Weight Bearing Capacity/or PCN Pavement Classification Number is shown as a codified expression.

Refer to the appropriate Supplement/Directory for applicable codes e.g., RWY 14-32 S75, T185, ST175, TT325  
PCN 80 F/D/X/U

Helicopter Alighting Areas

Negative Symbols used to identify Copter Procedures landing point.....

Runway Threshold elevation.....THRE 123

Runway TDZ elevation.....TDZE 123

Runway Slope.....0.3% DOWN

(shown when runway slope is greater than or equal to 0.3%)

NOTE:

Runway Slope measured to midpoint on runways 8000 feet or longer.

**U.S. Navy Optical Landing System (OLS) "OLS"** location is shown because of its height of approximately 7 feet and proximity to edge of runway may create an obstruction for some types of aircraft.

Approach light symbols are shown in the Flight Information Handbook.

Airport diagram scales are variable.

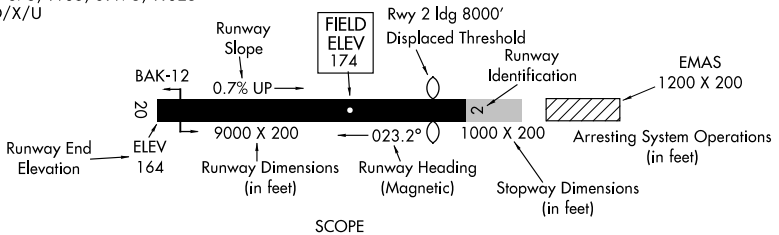
True/magnetic North orientation may vary from diagram to diagram

Coordinate values are shown in 1 or ½ minute increments. They are further broken down into 6 second ticks, within each 1 minute increments.

Positional accuracy within ±600 feet unless otherwise noted on the chart.

NOTE:

All new and revised airport diagrams are shown referenced to the World Geodetic System (WGS) (noted on appropriate diagram), and may not be compatible with local coordinates published in FLIP. (Foreign Only)



Airport diagrams are specifically designed to assist in the movement of ground traffic at locations with complex runway/taxiway configurations and provide information for updating Computer Based Navigation Systems (I.E., INS, GPS) aboard aircraft. Airport diagrams are not intended to be used for approach and landing or departure operations. For revisions to Airport Diagrams: Consult FAA Order 7910.4.

LEGEND

## HOT SPOTS

An “airport surface hot spot” is a location on an aerodrome movement area with a history or potential risk of collision or runway incursion, and where heightened attention by pilots/drivers is necessary.

A “hot spot” is a runway safety related problem area on a airport that presents increased risk during surface operations. Typically it is a complex or confusing taxiway/taxiway or taxiway/runway intersection. The area of increased risk has either a history of or potential for runway incursions or surface incidents, due to a variety of causes, such as but not limited to: airport layout, traffic flow, airport marking, signage and lighting, situational awareness, and training. Hot spots are depicted on airport diagrams as circles or polygons designated as “HOT<sup>1</sup>”, “HOT<sup>2</sup>”, etc. and tabulated in the list below with a brief description of each hot spot. Hot spots will remain charted on airport diagrams until such time the increased risk has been reduced or eliminated.

CITY/AIRPORT	HOT SPOT	DESCRIPTION
<b>ALABAMA</b>		
MONTGOMERY		
MONTGOMERY RGNL (DANNELY FIELD) (MGM)	HOT <sup>1</sup>	Intersection of Twy A3 and the terminal ramp. Potential confusion of Twy A3 as the taxi route to Rwy 10/28.
	HOT <sup>2</sup>	Intersection of the Twy A5 and the ANG ramp. Potential exiting Rwy 10/28 at Twy A5.
<b>FLORIDA</b>		
DAYTONA BEACH		
DAYTONA BEACH INTL (DAB)	HOT <sup>1</sup>	Pilots taxiing southbound on Twy W sometimes miss the right turn on Twy S and enter the runway without clearance.
MIAMI		
MIAMI INTL, FL (MIA)	HOT <sup>1</sup>	Multiple intersections closely spaced. Departure taxi out of Spot 15, Spot 14, Spot 13, misidentification of Twy P and Twy Q at Twy T has lead to rwy incursions onto Rwy 12–30. Twy runway ends in close proximity.
	HOT <sup>2</sup>	
	HOT <sup>3</sup>	
STUART		
WITHAM FIELD (SUA)	HOT <sup>1</sup>	Intersecting rwys, wrong rwy departure risk. (Check rwy alignment.)
	HOT <sup>2</sup>	Rwy 12 and Twy A1.
<b>GEORGIA</b>		
AUGUSTA		
AUGUSTA RGNL AT BUSH FLD (AGS)	HOT <sup>1</sup>	Intersection of Twy E and Rwy 17/35.
<b>NORTH CAROLINA</b>		
CHARLOTTE		
CHARLOTTE/DOUGLAS INTL (CLT)	HOT <sup>1</sup>	Confusing intersection due to convergence of Twys R, A, C and C9, along with grass island.
RALEIGH/DURHAM		
RALEIGH–DURHAM INTL (RDU)	HOT <sup>1</sup>	Intersection of Rwy 5R/23L and Twy C.

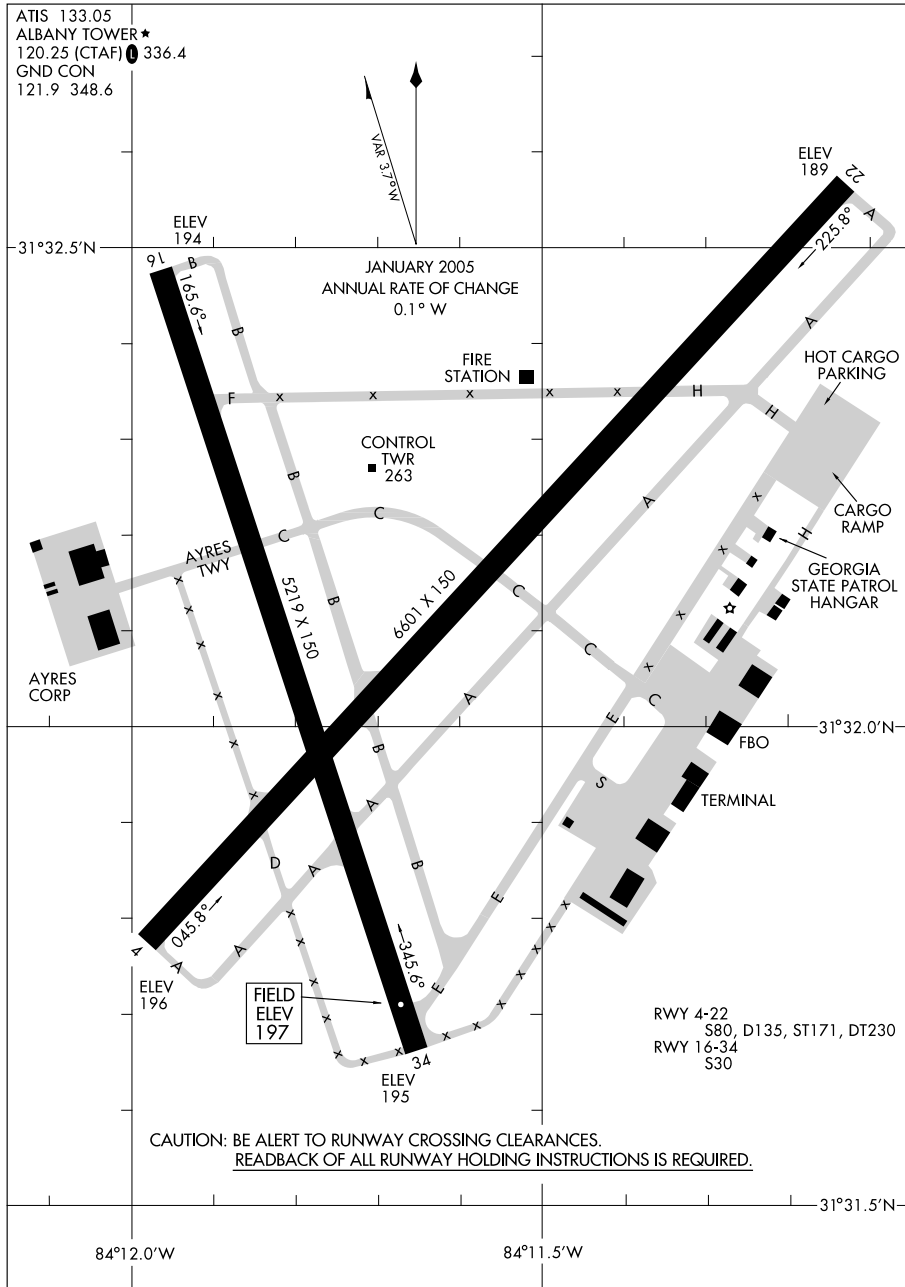
08213

# AIRPORT DIAGRAM

ALBANY/ SOUTHWEST GEORGIA RGNL (ABY)

AL-8 (FAA)

ALBANY, GEORGIA



## AIRPORT DIAGRAM

08213

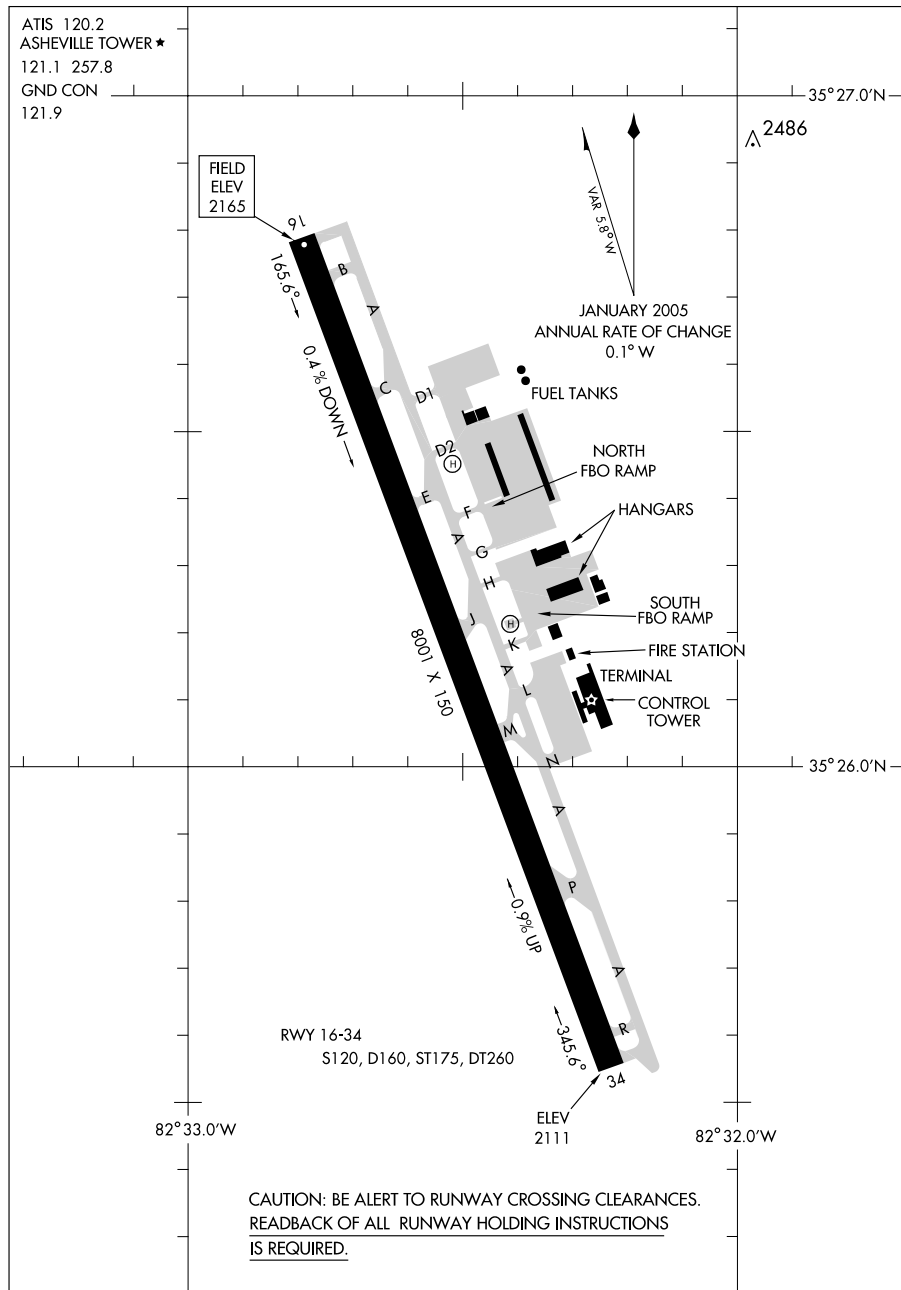
ALBANY, GEORGIA

ALBANY/SOUTHWEST GEORGIA RGNL (ABY)

08101

## AIRPORT DIAGRAM

AL-5061 (FAA)

ASHEVILLE RGNL (AVL)  
ASHEVILLE, NORTH CAROLINA

## AIRPORT DIAGRAM

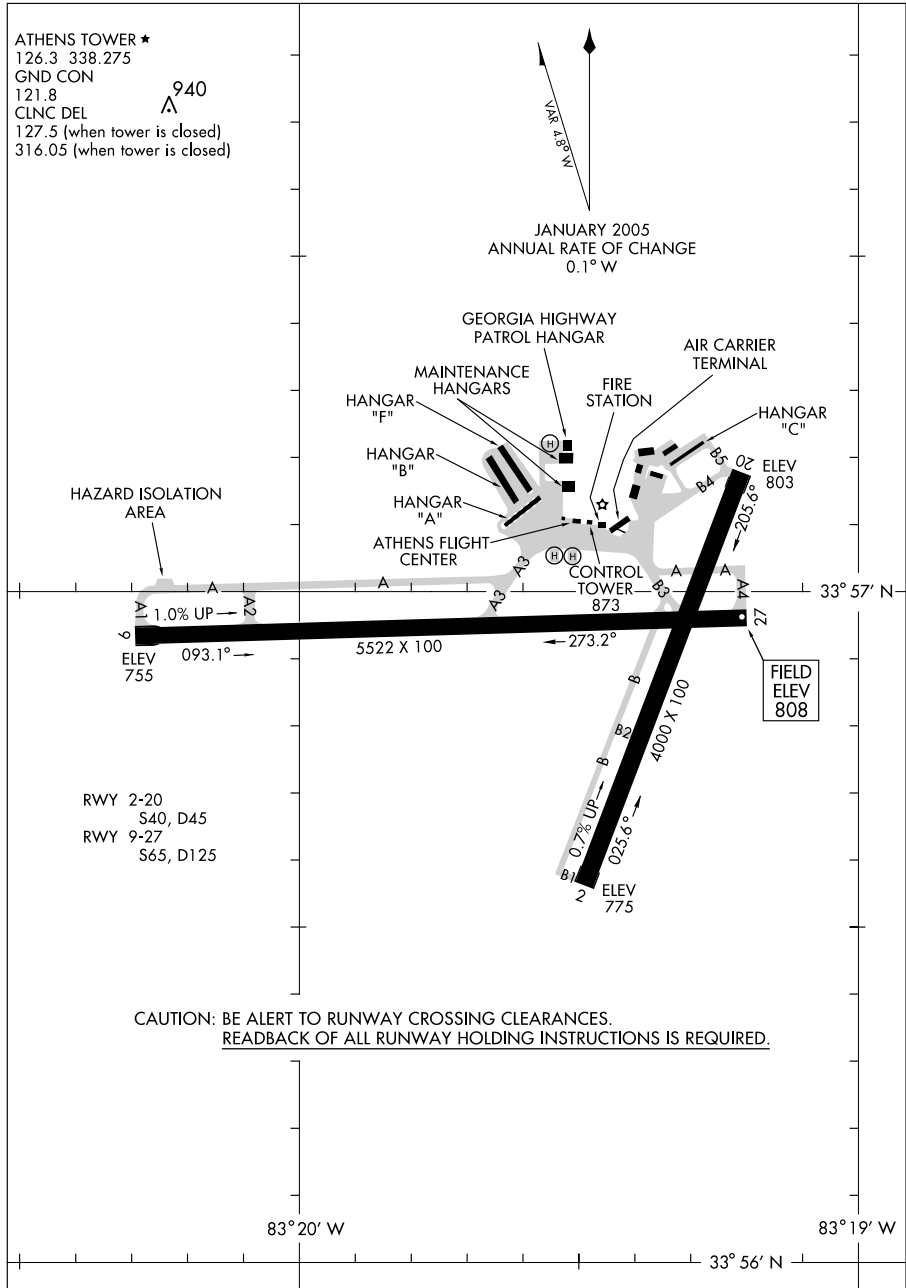
08101

ASHEVILLE, NORTH CAROLINA  
ASHEVILLE RGNL (AVL)

07018

## AIRPORT DIAGRAM

AL-983 (FAA)

ATHENS/ BEN EPPS (AHN)  
ATHENS, GEORGIA

## AIRPORT DIAGRAM

07018

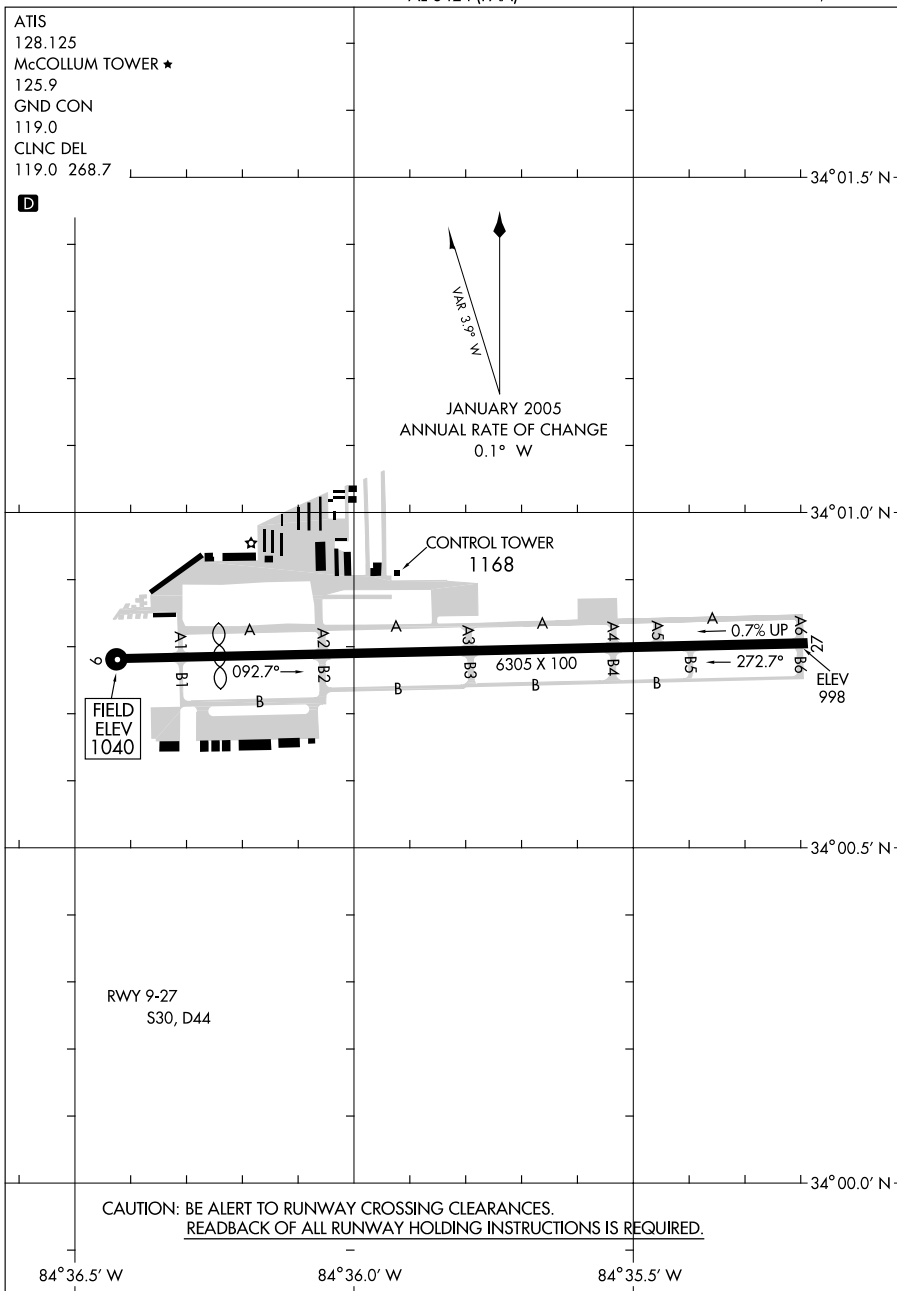
ATHENS, GEORGIA  
ATHENS/ BEN EPPS (AHN)

09127

## AIRPORT DIAGRAM

ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)  
AL-6424 (FAA)

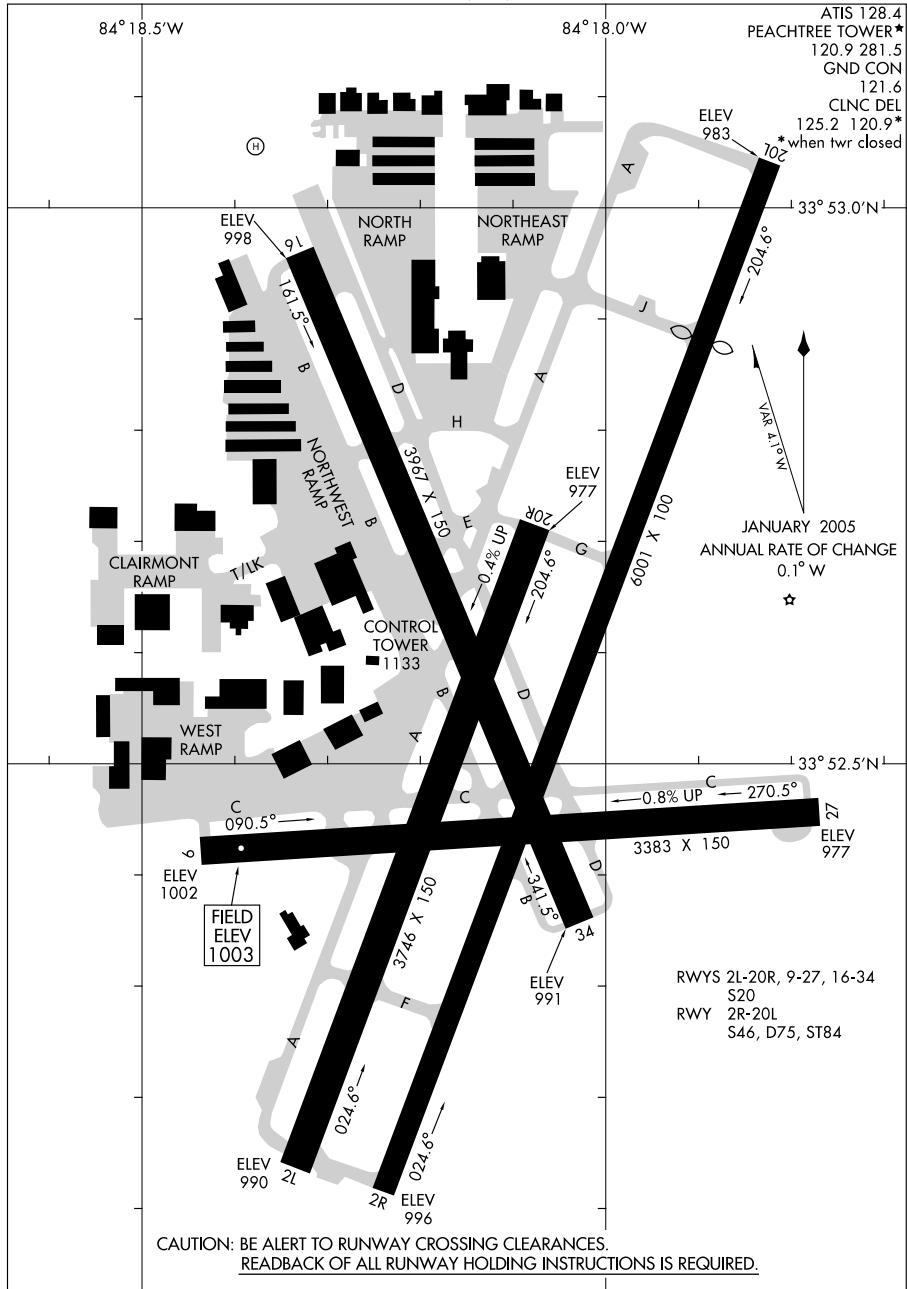
ATLANTA, GEORGIA



## AIRPORT DIAGRAM

09127

ATLANTA, GEORGIA  
ATLANTA/ COBB COUNTY-McCOLLUM FIELD (RYY)

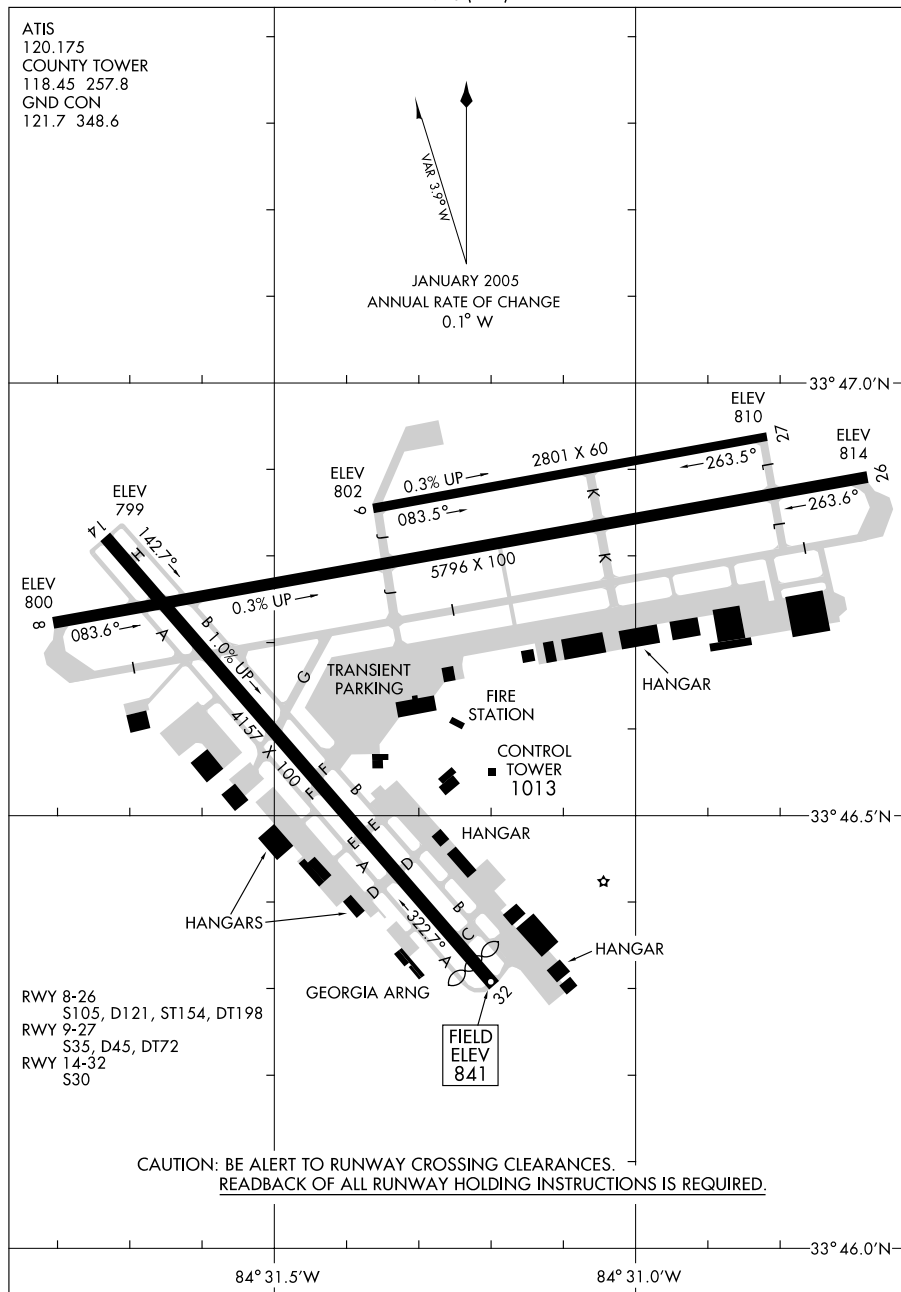


09239

## AIRPORT DIAGRAM

ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)  
AL-745 (FAA)

ATLANTA, GEORGIA



## AIRPORT DIAGRAM

09239

ATLANTA, GEORGIA  
ATLANTA/FULTON COUNTY AIRPORT-BROWN FIELD (F'TY)





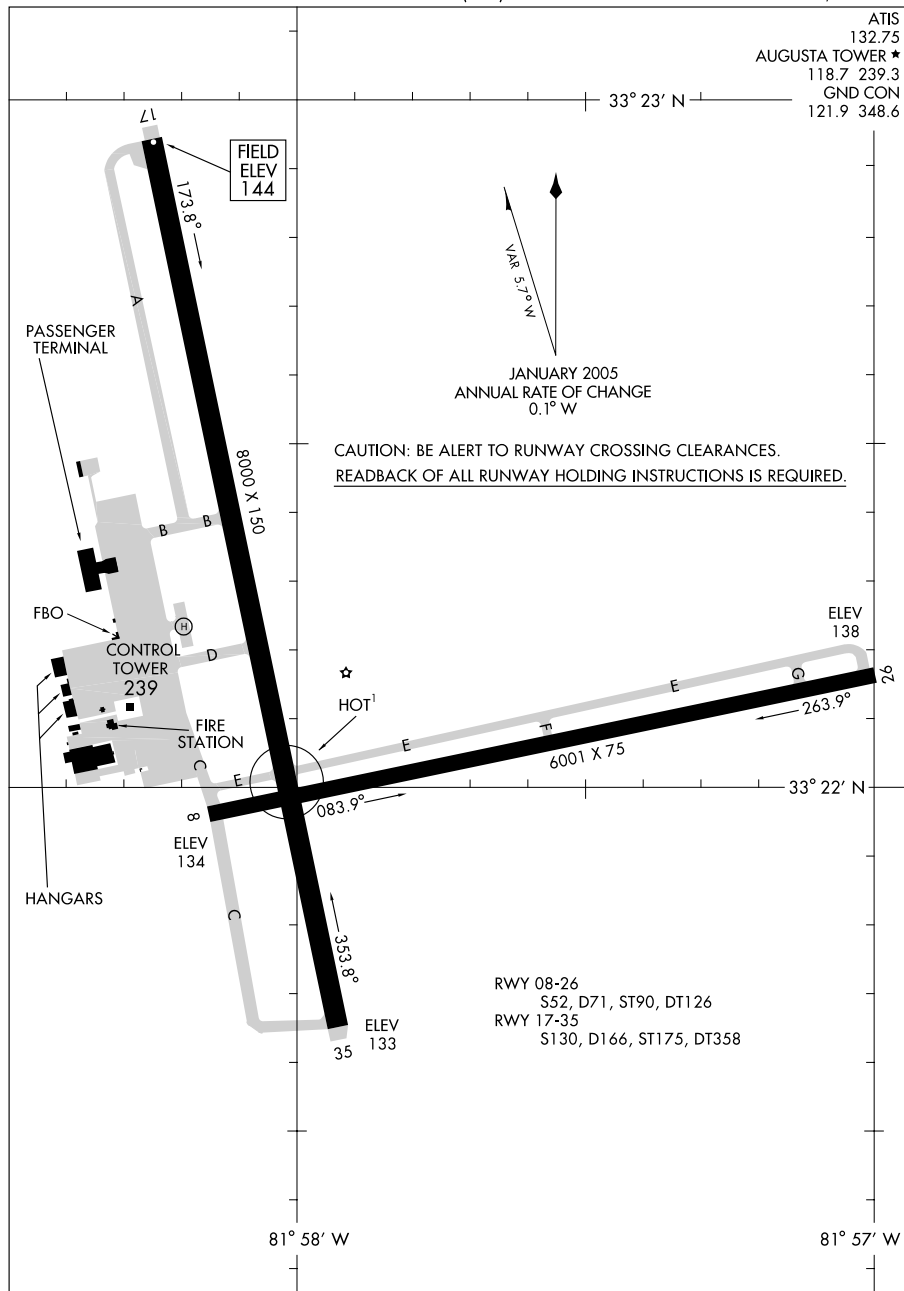
09071

## AIRPORT DIAGRAM

AL-27 (FAA)

AUGUSTA RGNL AT BUSH FIELD (AGS)

AUGUSTA, GEORGIA



## AIRPORT DIAGRAM

09071

AUGUSTA, GEORGIA  
AUGUSTA RGNL AT BUSH FIELD (AGS)

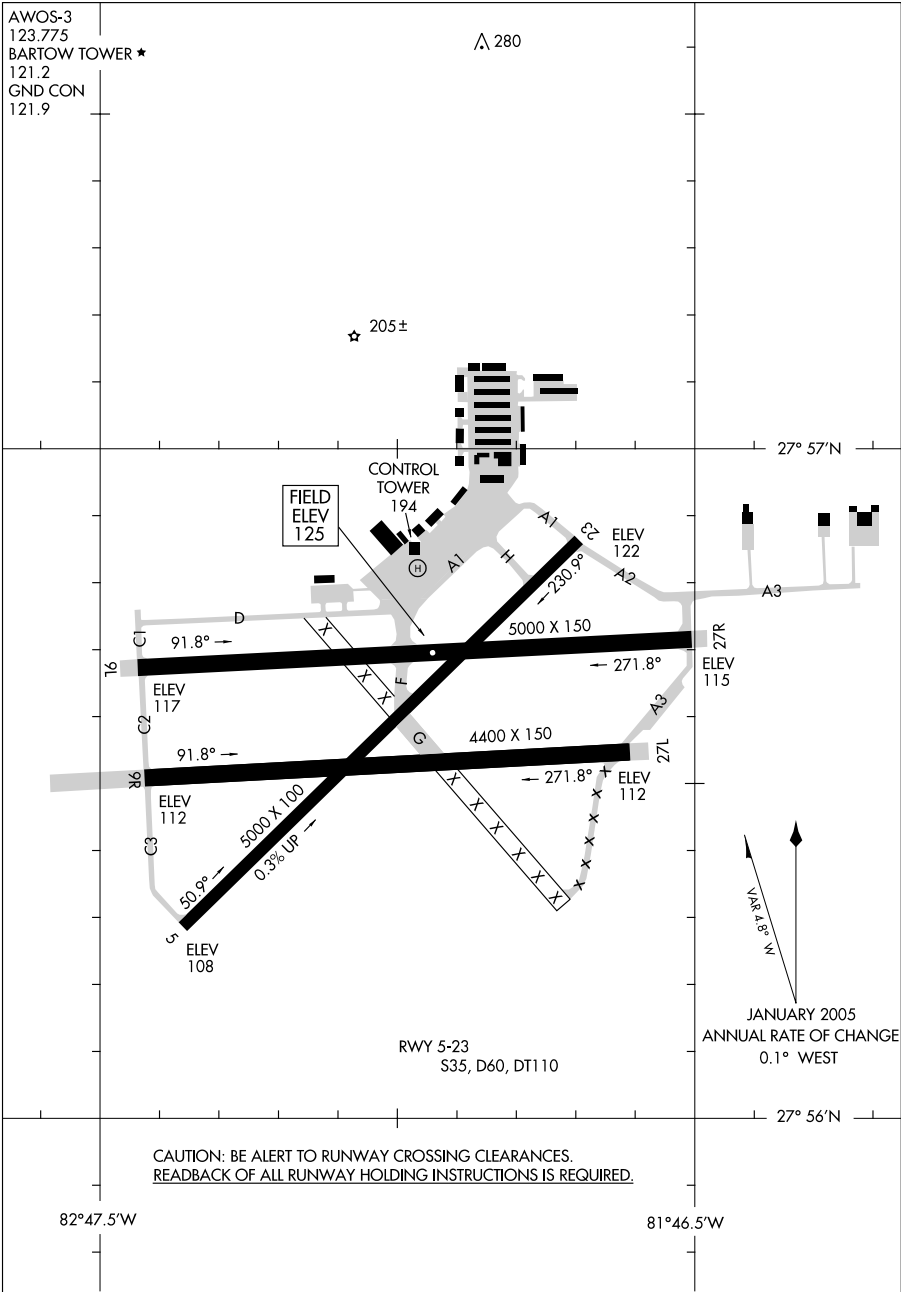
09071

AIRPORT DIAGRAM

AL-5838 (FAA)

BARTOW MUNI (BOW)

BARTOW, FLORIDA



AIRPORT DIAGRAM

09071

BARTOW MUNI (BOW)

BARTOW, FLORIDA

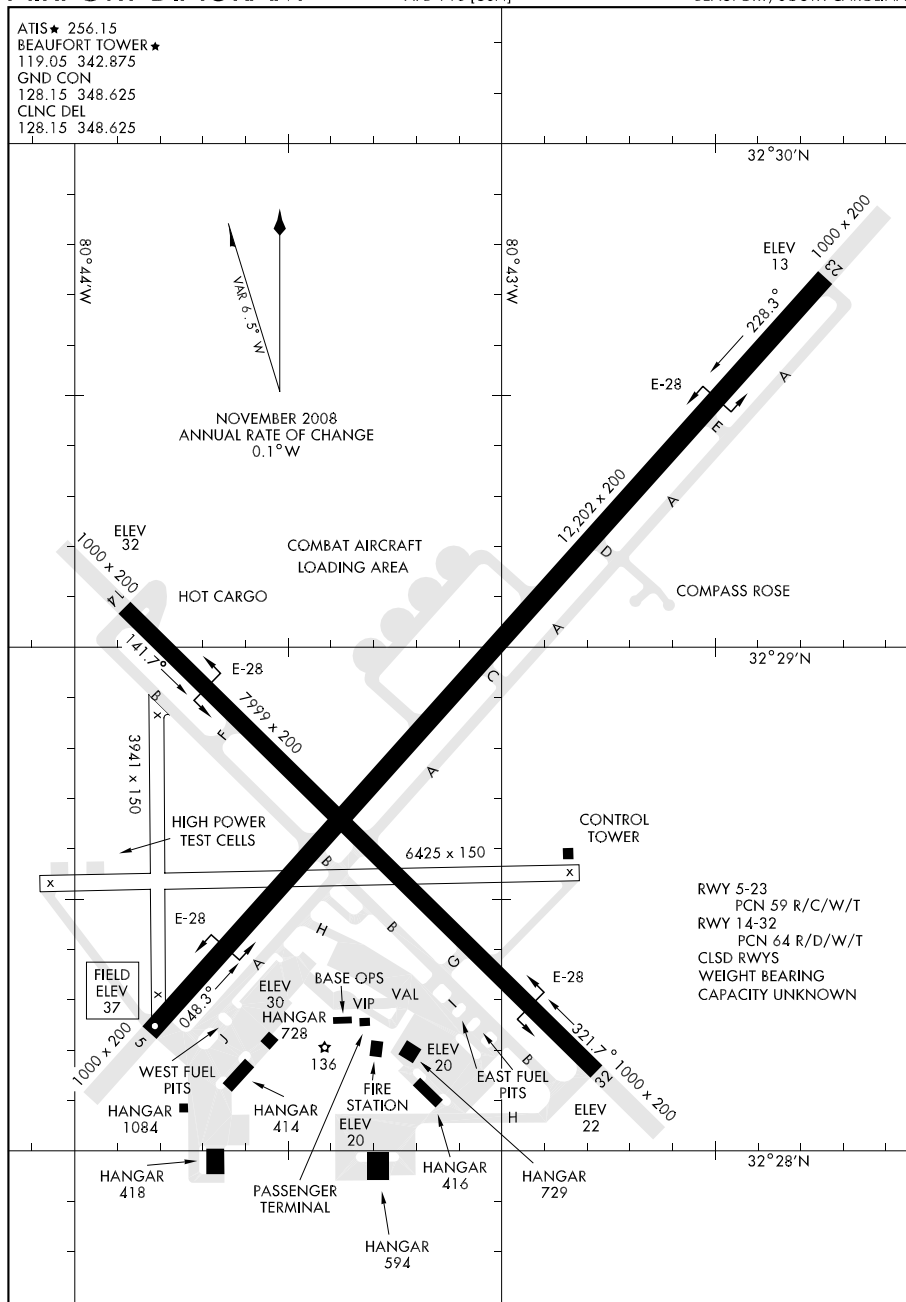
08325

## AIRPORT DIAGRAM

AFD-916 [USN]

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

BEAUFORT, SOUTH CAROLINA



## AIRPORT DIAGRAM

BEAUFORT, SOUTH CAROLINA

BEAUFORT MCAS (MERRITT FIELD) (KNBC)

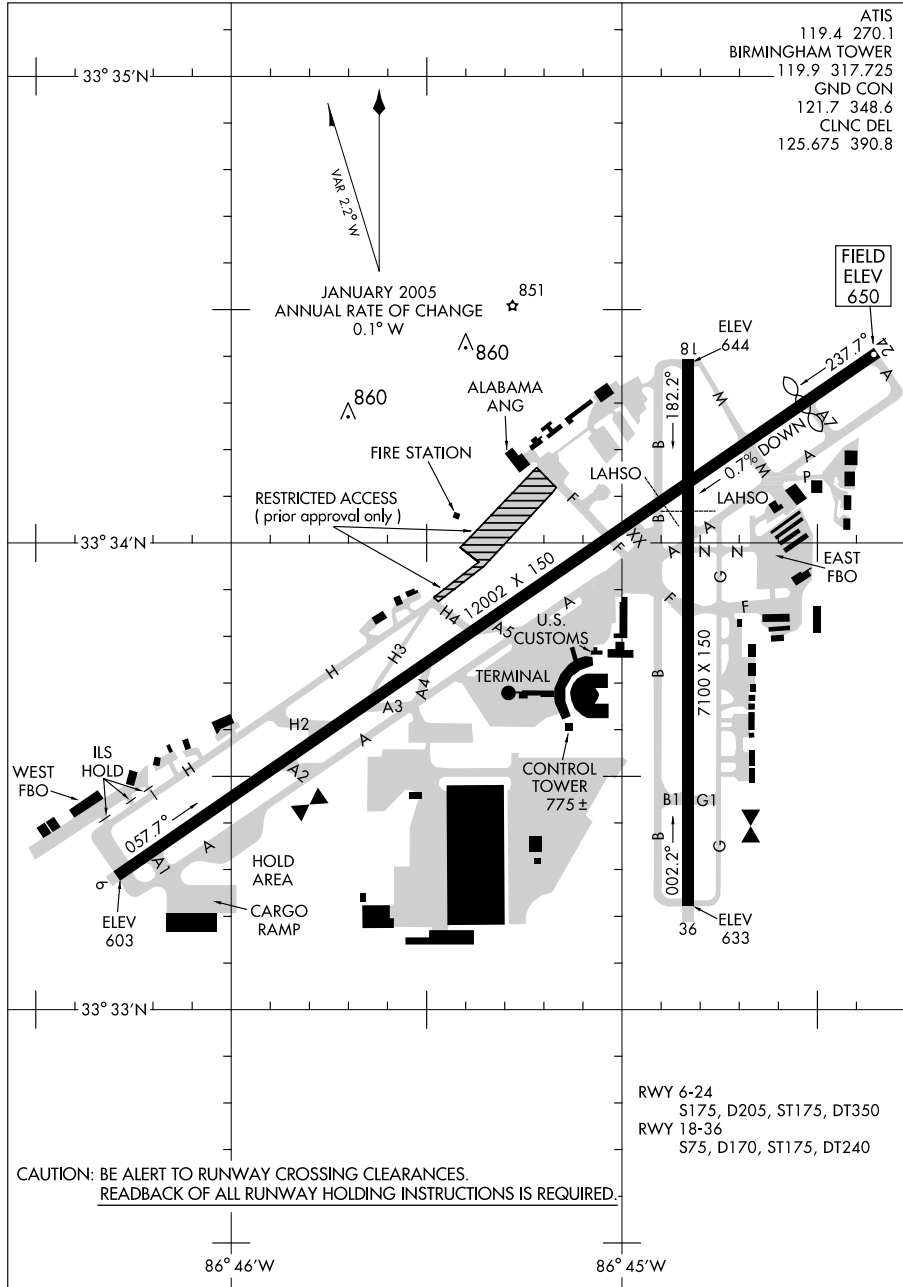
09295

## AIRPORT DIAGRAM

BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

AL-50 (FAA)

BIRMINGHAM, ALABAMA



## AIRPORT DIAGRAM

09295

BIRMINGHAM, ALABAMA  
BIRMINGHAM-SHUTTLESWORTH INTL (BHM)

09183

# AIRPORT DIAGRAM

AL-560 (FAA)

BOCA RATON (BCT)  
BOCA RATON, FLORIDA

AWOS-3  
121.125  
BOCA RATON TOWER ★  
118.425  
GND CON  
121.8  
CLNC DEL  
121.8  
127.35 (When Tower Closed)

**D**

## HANGARS

FIELD  
ELEV  
13<sup>46</sup>Δ

—26° 23.0'N—

## HANGARS

## HANGARS

## HANGARS

6276 X 150

CONTROL  
TOWER

—26° 22.5'N—

ELEV  
11

RWY 5-23  
S40, D60

JANUARY 2005  
ANNUAL RATE OF CHANGE  
0.1° W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

80° 07.0'W

80° 06.5'W

80°06.0'W

—26° 22.0'N—

## AIRPORT DIAGRAM

09183

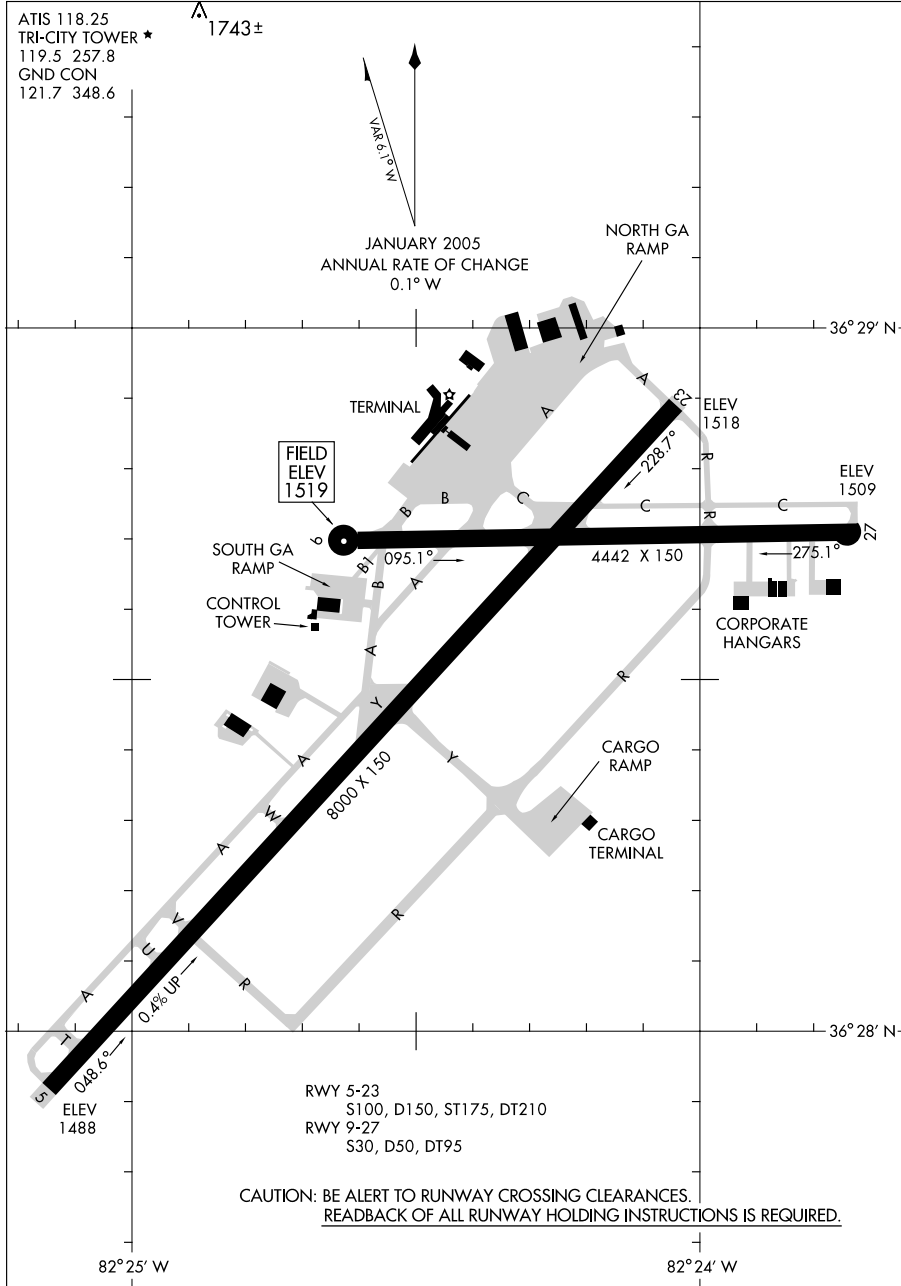
BOCA RATON, FLORIDA  
BOCA RATON (BCT)

SE, 22 OCT 2009 to 17 DEC 2009

07298

## AIRPORT DIAGRAM

AL-426 (FAA)

BRISTOL/TRI-CITIES RGNL TN/VA (TRI)  
BRISTOL-JOHNSON-KINGSPORT, TENNESSEE

## AIRPORT DIAGRAM

07298

BRISTOL-JOHNSON-KINGSPORT, TENNESSEE  
BRISTOL/TRI-CITIES RGNL TN/VA (TRI)

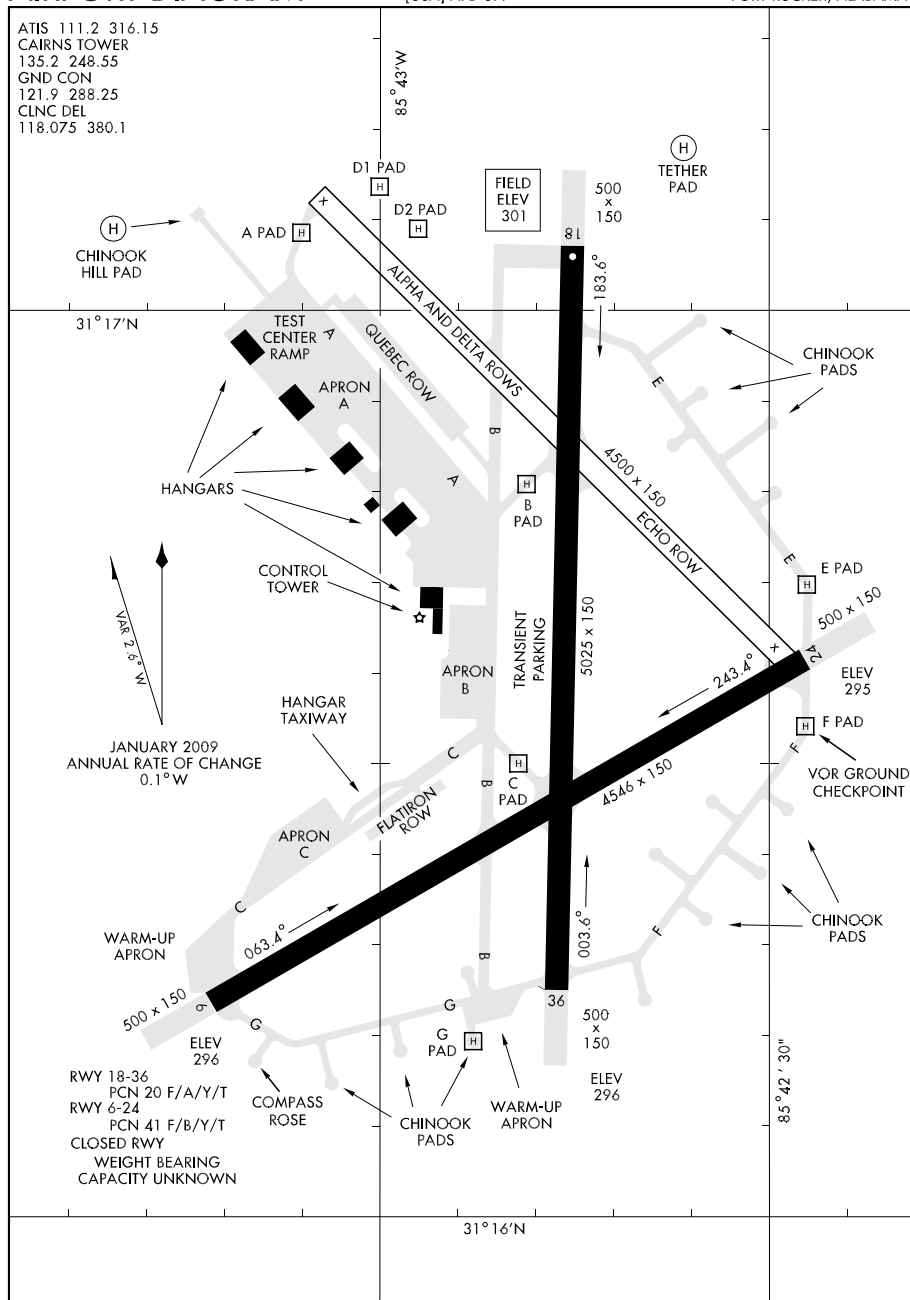
09015

## AIRPORT DIAGRAM

[USA] AFD-577

CAIRNS AAF (KOZR)

FORT RUCKER, ALABAMA



## AIRPORT DIAGRAM

FORT RUCKER, ALABAMA

CAIRNS AAF (KOZR)



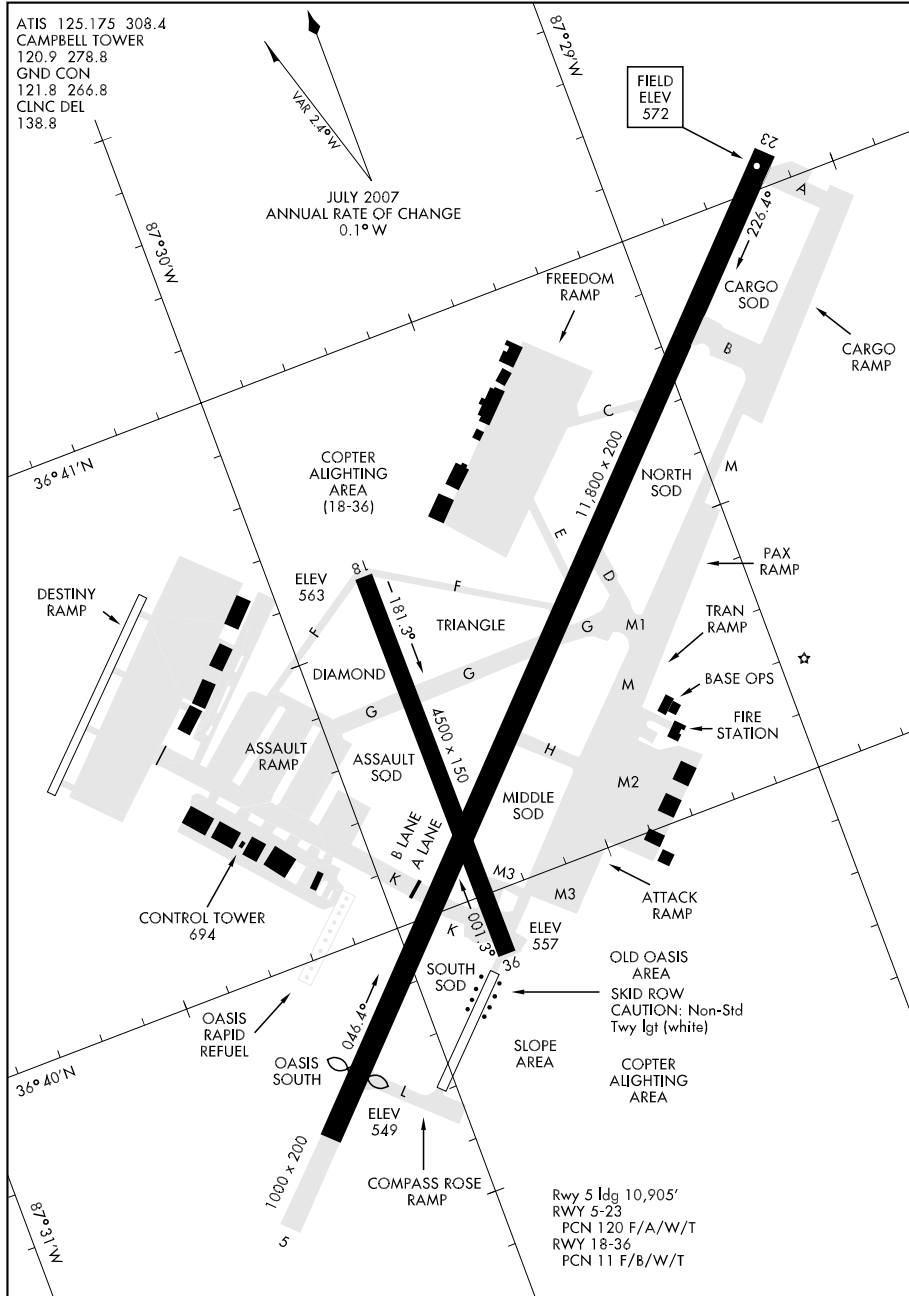
07186

## AIRPORT DIAGRAM

AFD-679 [USA]

CAMPBELL AAF (KHOP)

FORT CAMPBELL, KENTUCKY



## AIRPORT DIAGRAM

WGS-84 DATUM

 FORT CAMPBELL, KENTUCKY  
 CAMPBELL AAF (KHOP)

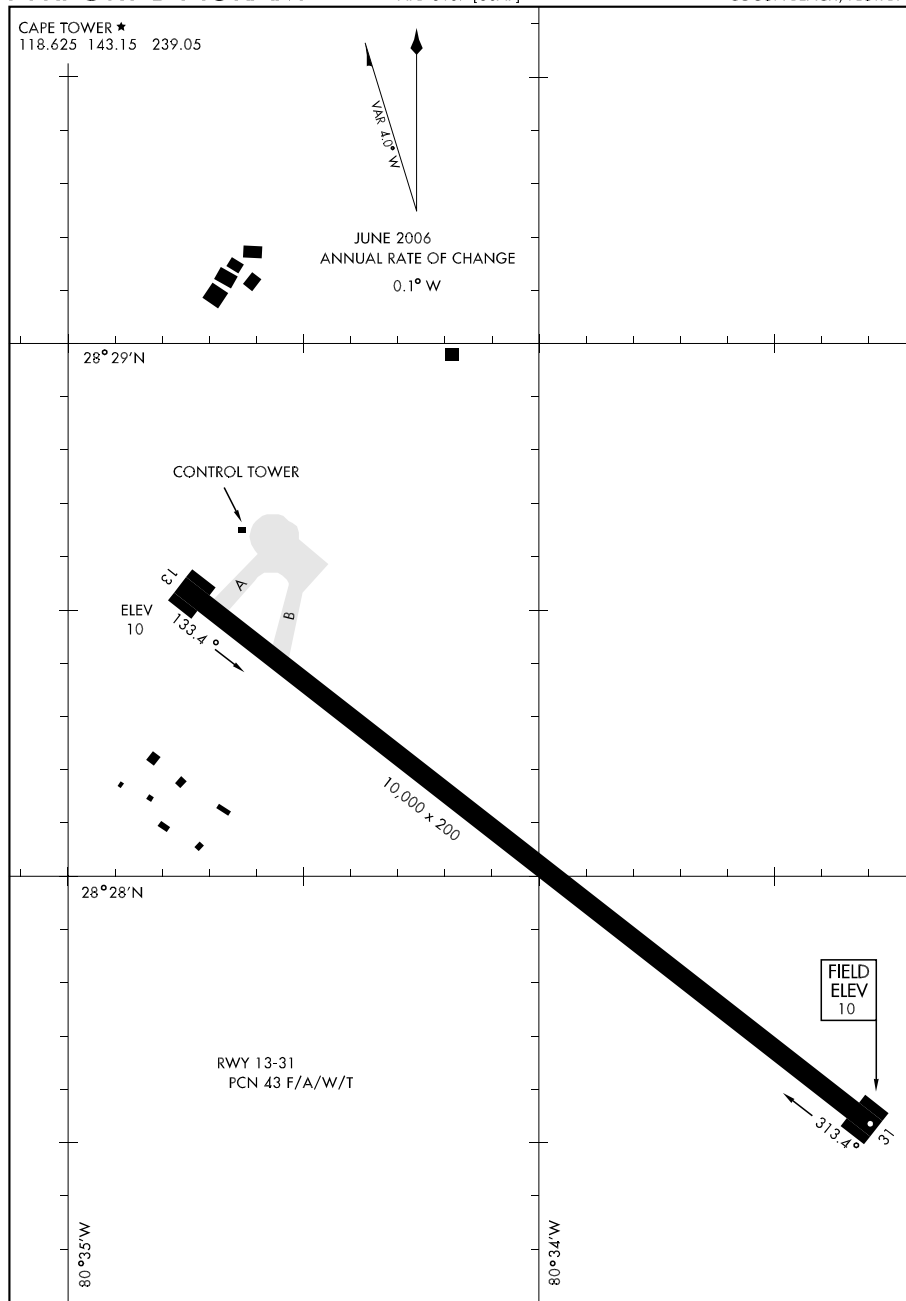
06159

CAPE CANAVERAL AFS SKID STRIP (KXMR)

## AIRPORT DIAGRAM

AFD-5157 [USAF]

COCOA BEACH, FLORIDA



## AIRPORT DIAGRAM

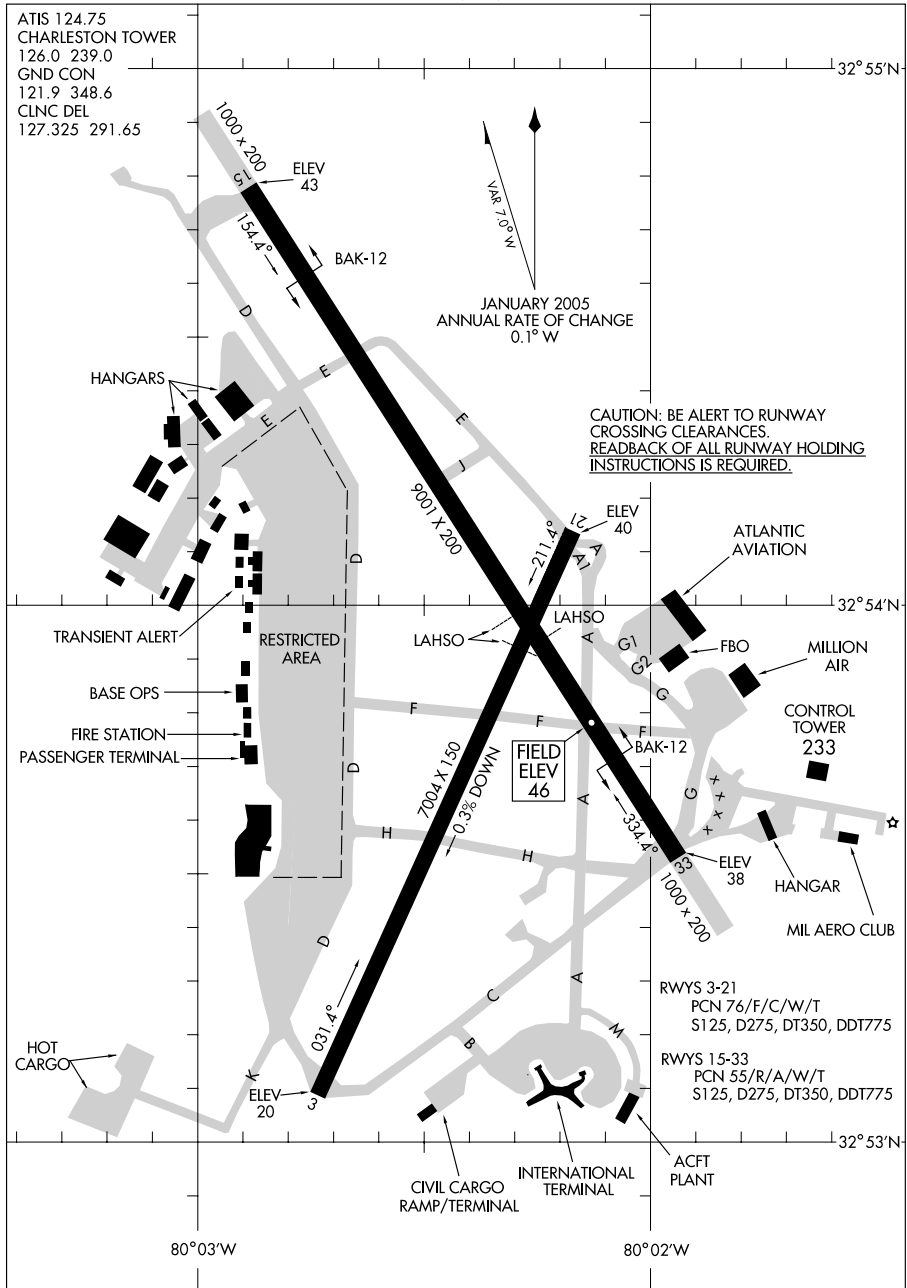
COCOA BEACH, FLORIDA

CAPE CANAVERAL AFS SKID STRIP (KXMR)

08325

## AIRPORT DIAGRAM

AL-76 (FAA)

CHARLESTON AFB/INTL (CHS)  
CHARLESTON, SOUTH CAROLINA

## AIRPORT DIAGRAM

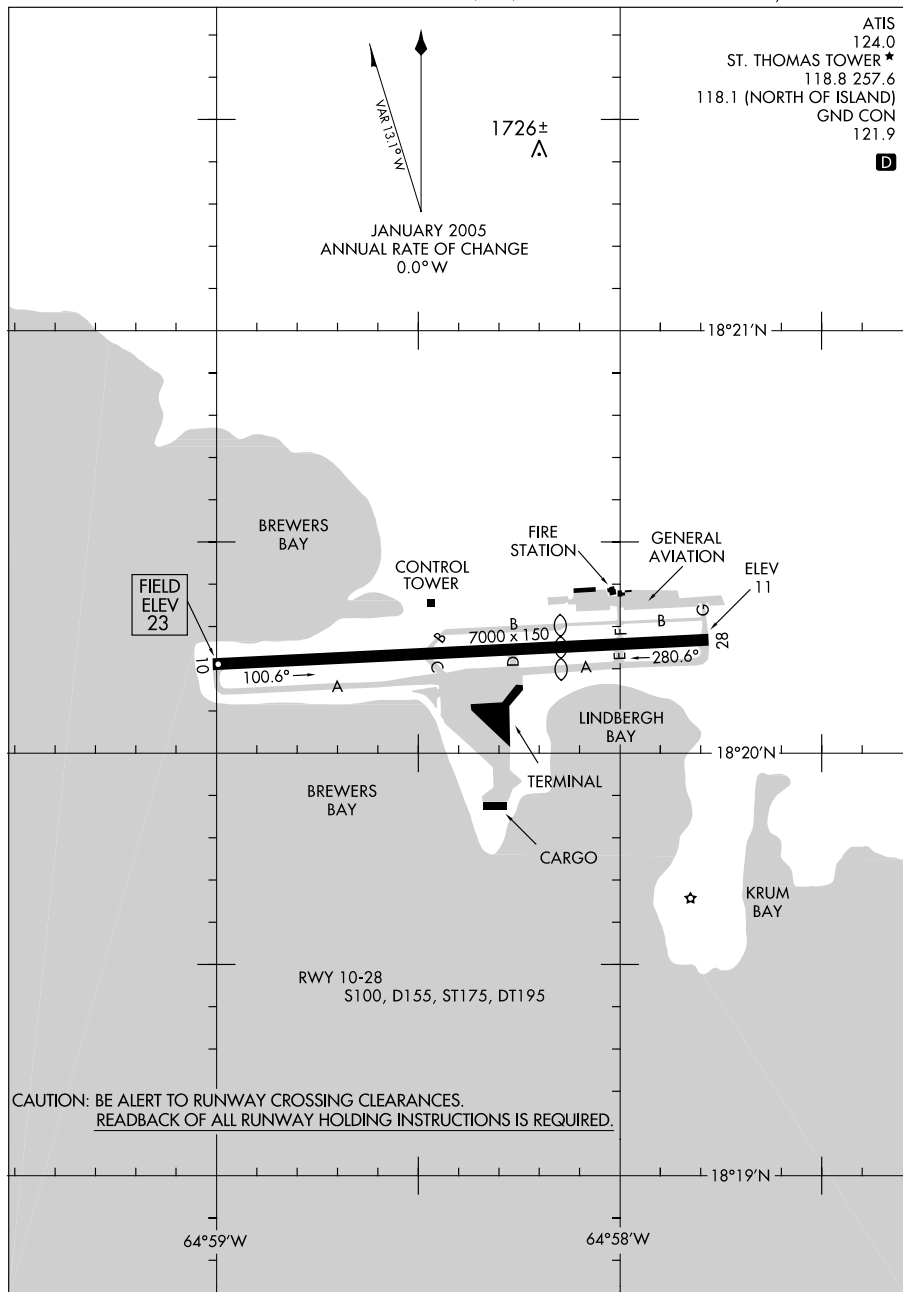
08325

CHARLESTON, SOUTH CAROLINA  
CHARLESTON AFB/INTL (CHS)

09183

## AIRPORT DIAGRAM

CHARLOTTE AMAIE/ CYRIL E KING (STT)(TIST)  
AL-5005 (FAA) ST. THOMAS, VIRGIN ISLANDS



## AIRPORT DIAGRAM

09183

ST. THOMAS, VIRGIN ISLANDS  
CHARLOTTE AMAIE/ CYRIL E KING (STT)(TIST)

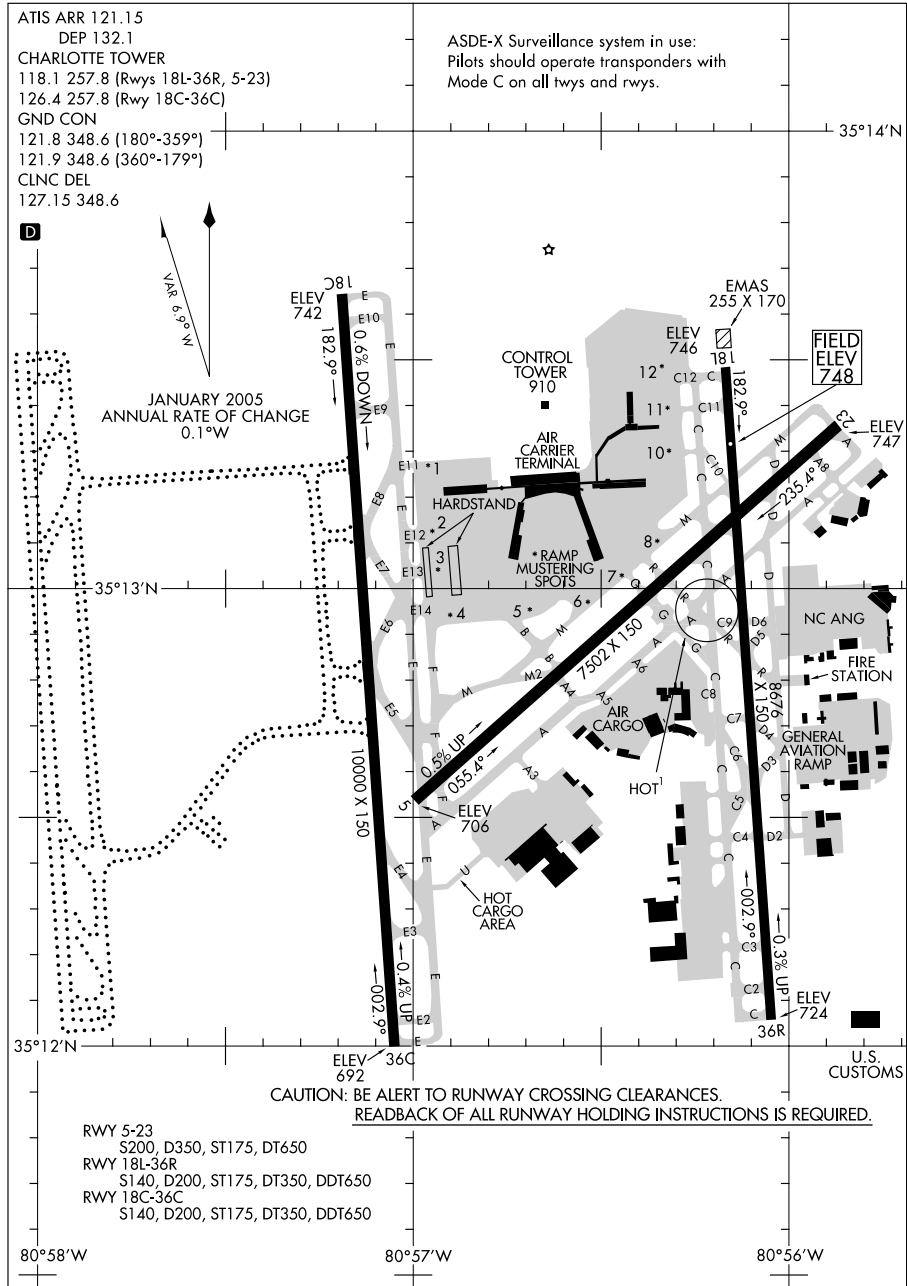
09239

## AIRPORT DIAGRAM

AL-78 (FAA)

CHARLOTTE/DOUGLAS INTL (CLT)

CHARLOTTE, NORTH CAROLINA



## AIRPORT DIAGRAM

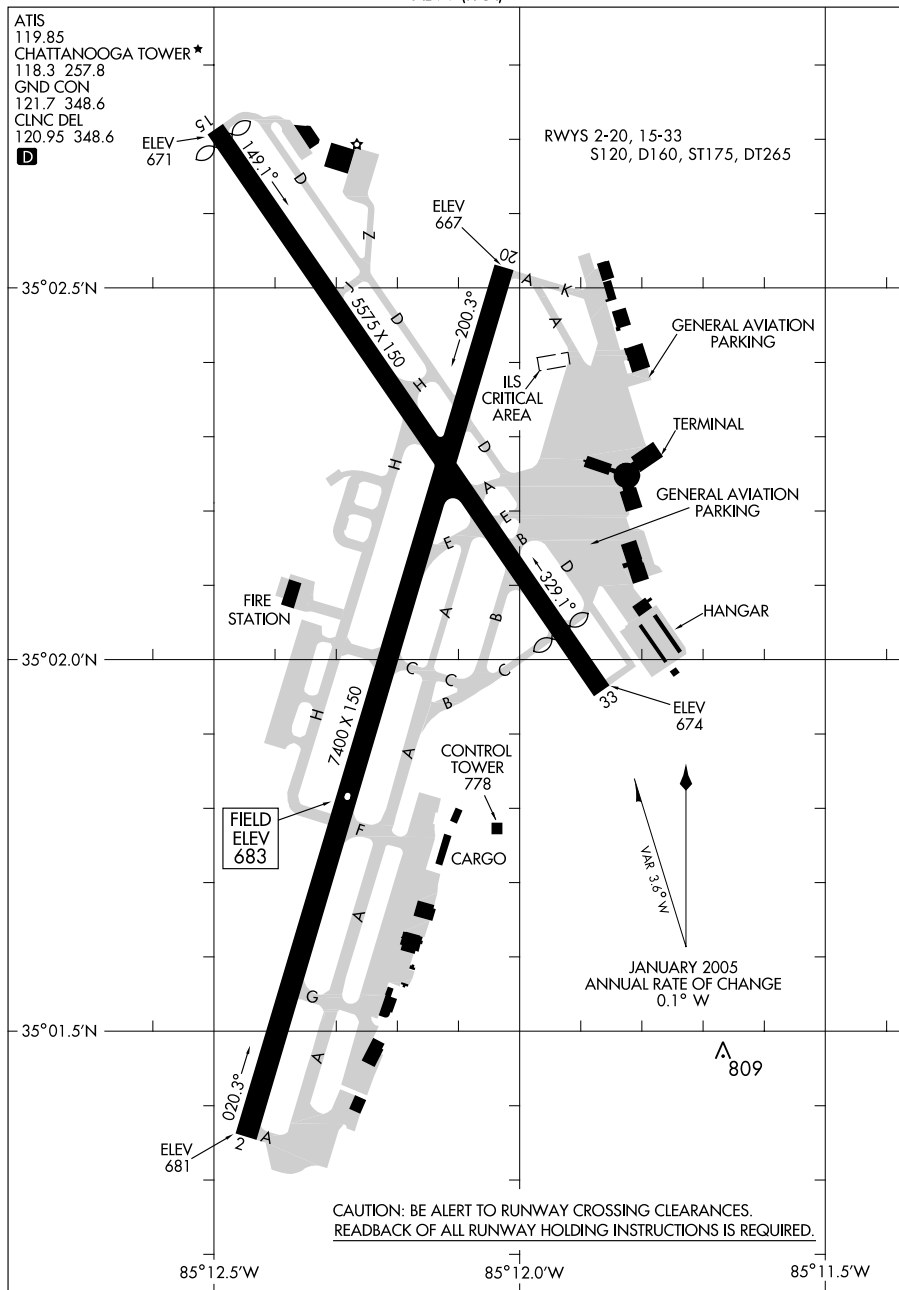
09239

CHARLOTTE, NORTH CAROLINA  
CHARLOTTE/DOUGLAS INTL (CLT)

09295

## AIRPORT DIAGRAM

AL-79 (FAA)

CHATTANOOGA/LOVELL FIELD (CHA)  
CHATTANOOGA, TENNESSEE

## AIRPORT DIAGRAM

09295

CHATTANOOGA, TENNESSEE  
CHATTANOOGA/LOVELL FIELD (CHA)

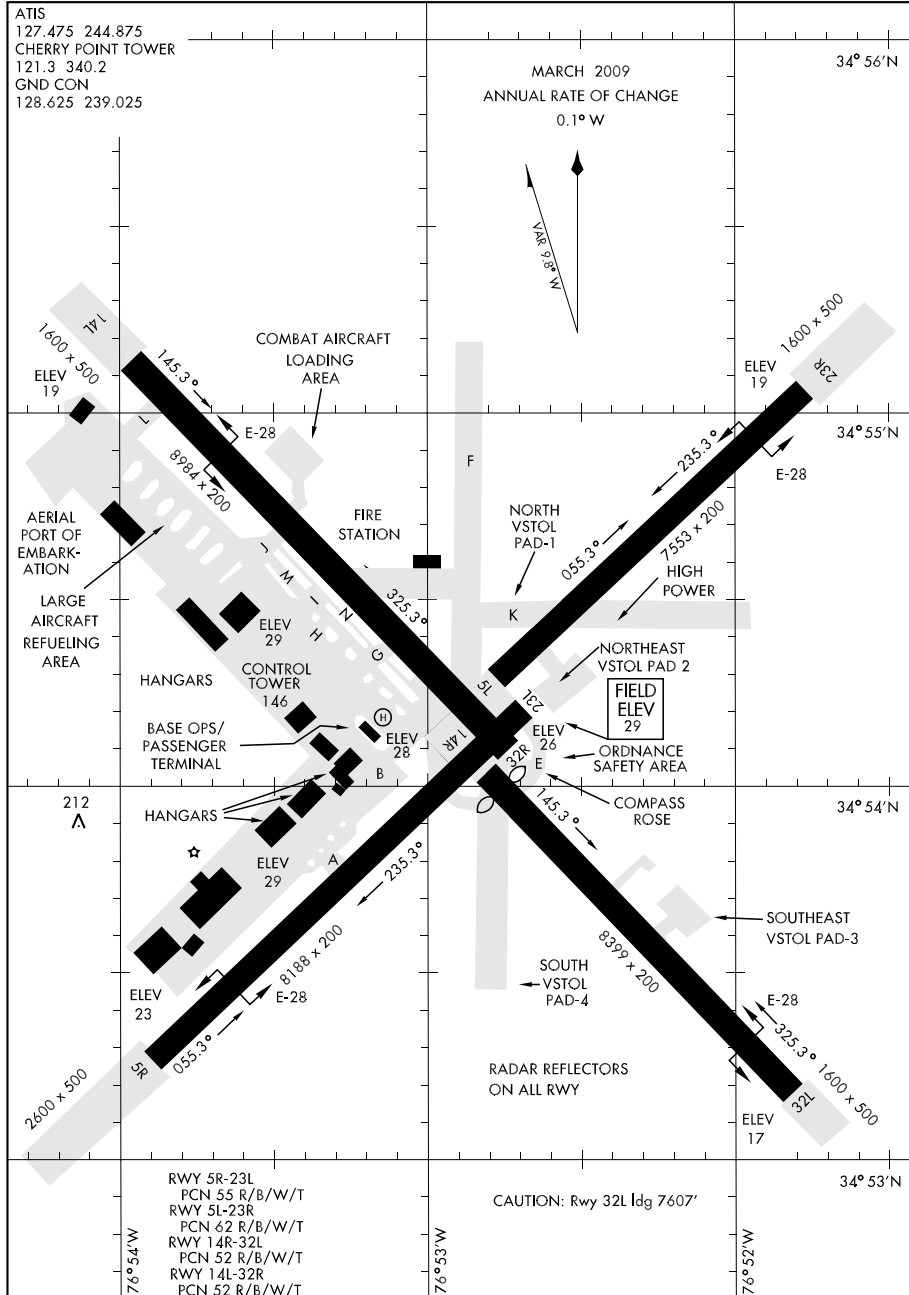
09071

## AIRPORT DIAGRAM

AFD-471 [USN]

CHERRY POINT MCAS (KNKT)

CHERRY POINT, NORTH CAROLINA



## AIRPORT DIAGRAM

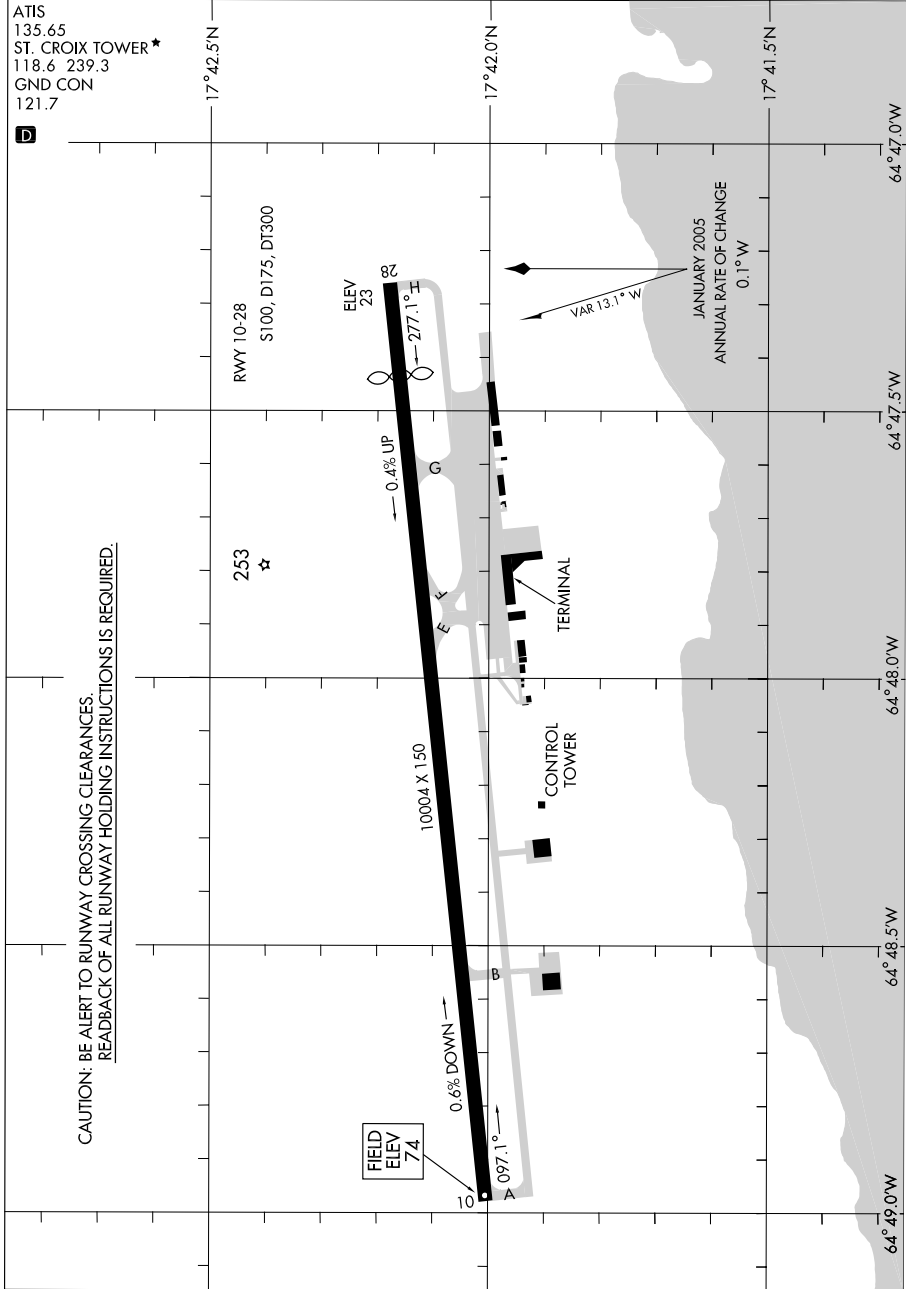
CHERRY POINT, NORTH CAROLINA  
CHERRY POINT MCAS (KNKT)

09183

AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)  
AL-5008 (FAA)

CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS



AIRPORT DIAGRAM

CHRISTIANSTED, ST. CROIX, VIRGIN ISLANDS

CHRISTIANSTED, ST. CROIX/HENRY E ROHLSSEN (STX)(TISX)

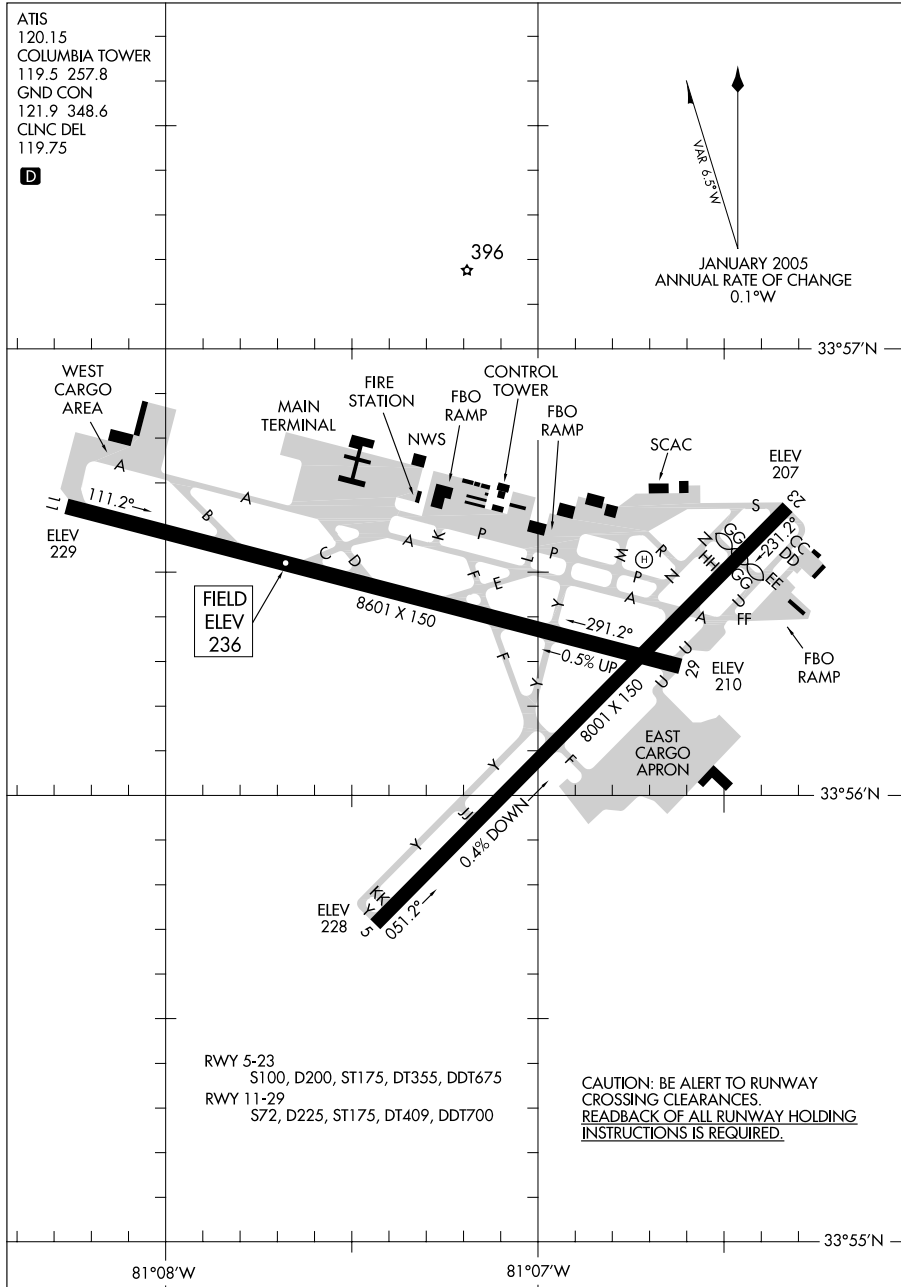
09183



09015

## AIRPORT DIAGRAM

AL-89 (FAA)

COLUMBIA METROPOLITAN (CAE)  
COLUMBIA, SOUTH CAROLINA

## AIRPORT DIAGRAM

09015

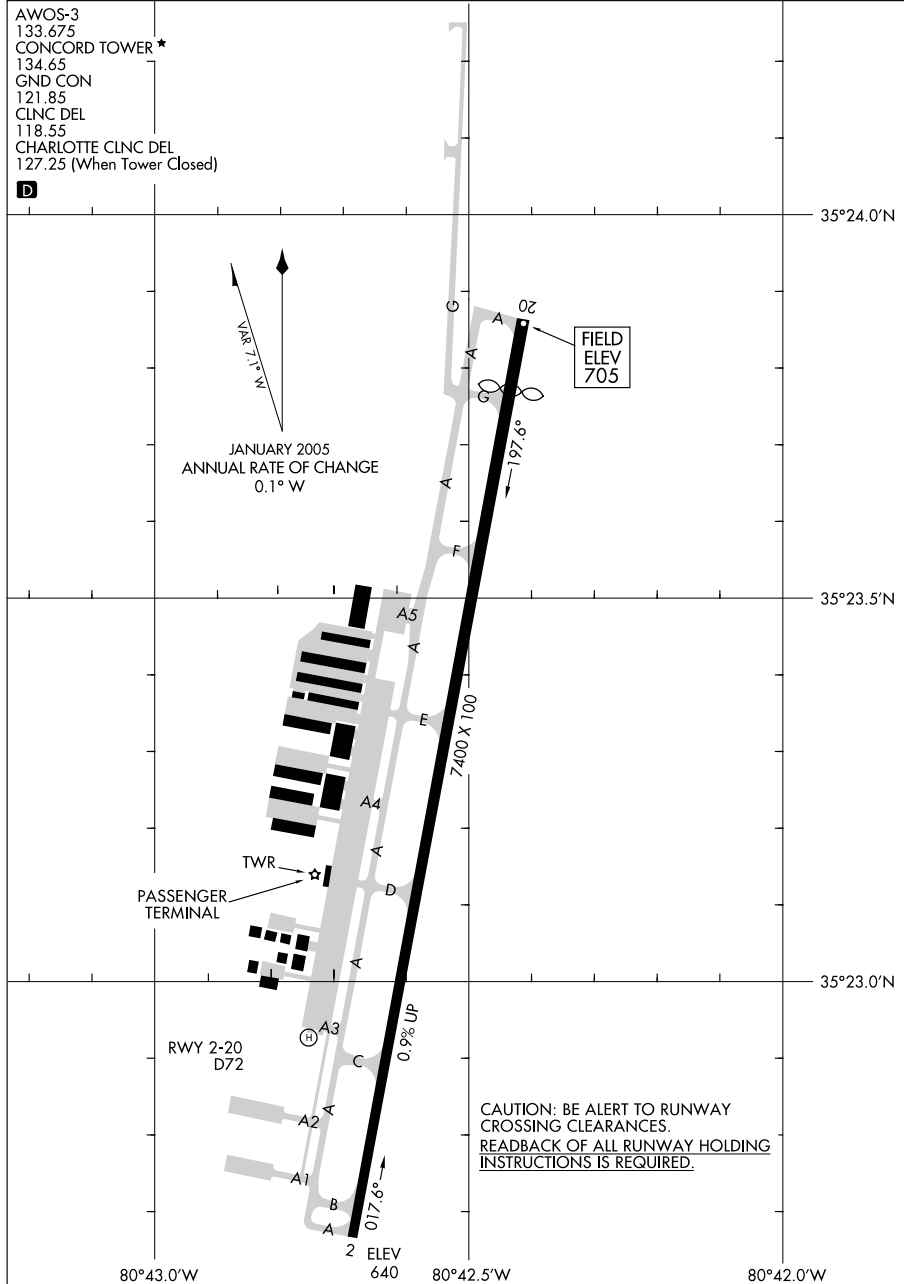
COLUMBIA, SOUTH CAROLINA  
COLUMBIA METROPOLITAN (CAE)



09239

## AIRPORT DIAGRAM

AL-9155 (FAA)

CONCORD RGNL (JQF)  
CONCORD, NORTH CAROLINA

## AIRPORT DIAGRAM

09239

CONCORD, NORTH CAROLINA  
CONCORD RGNL (JQF)

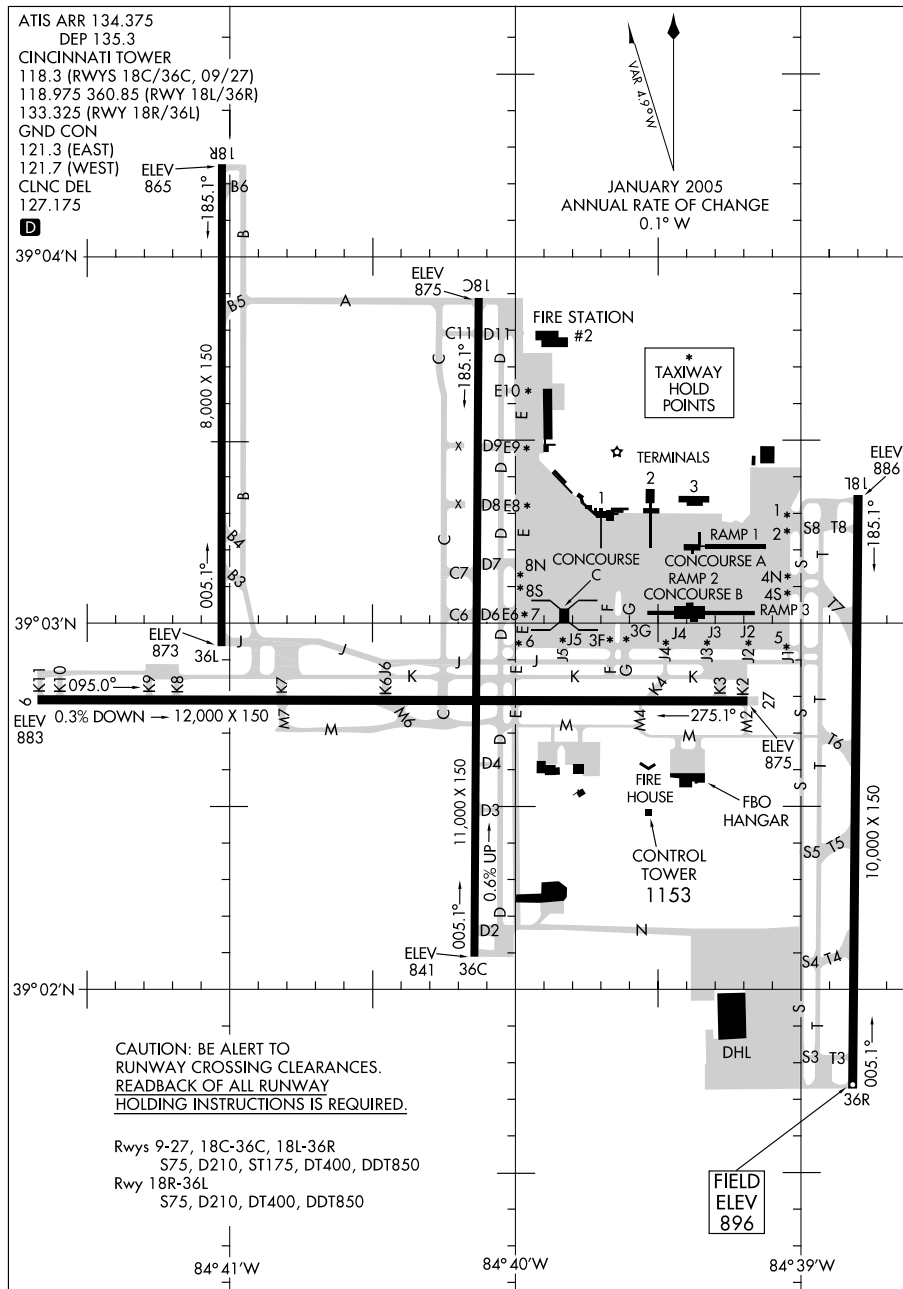
08325

## AIRPORT DIAGRAM

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

AL-655 (FAA)

COVINGTON, KENTUCKY



## AIRPORT DIAGRAM

08325

COVINGTON, KENTUCKY

COVINGTON/ CINCINNATI/NORTHERN KENTUCKY INTL (CVG)

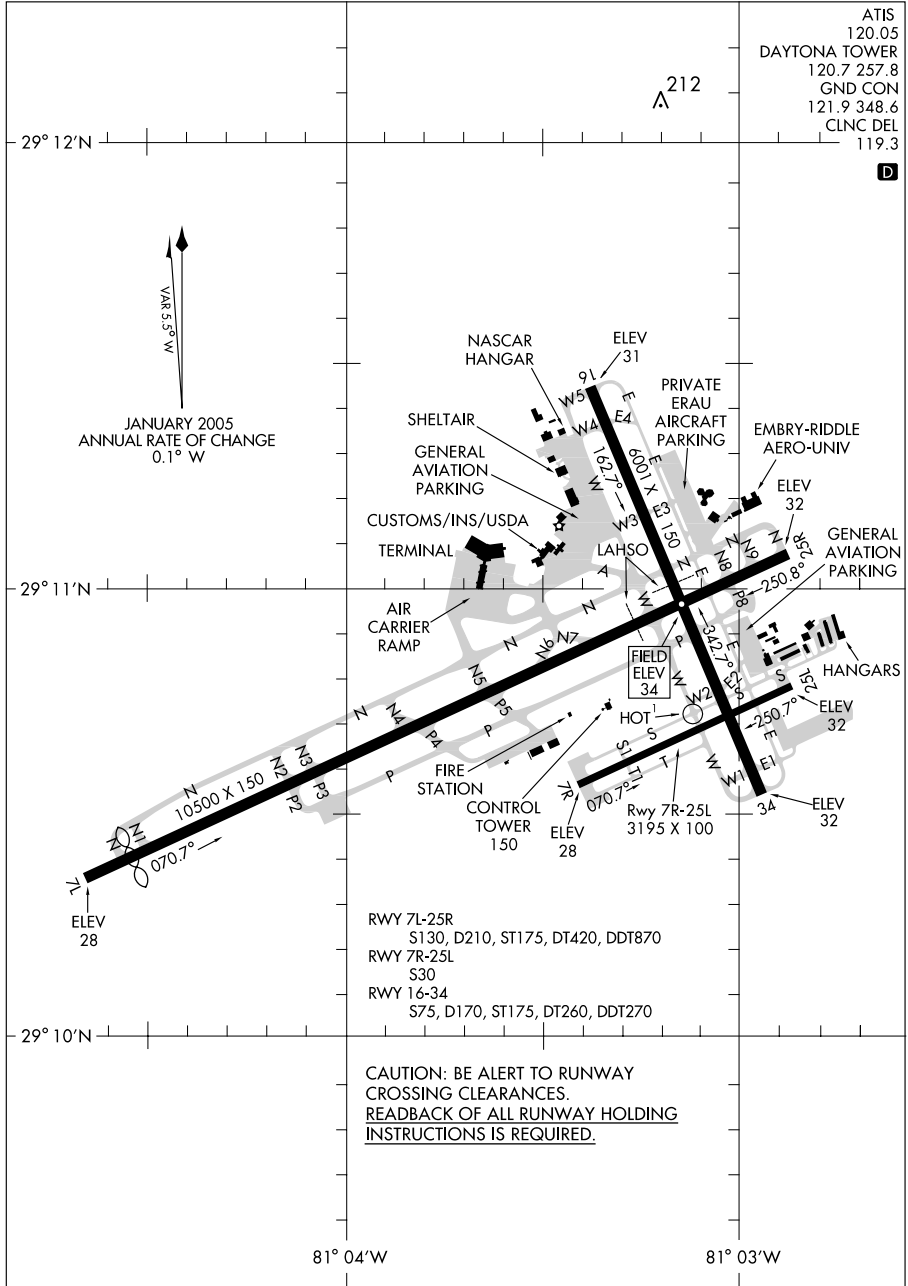
SE, 22 OCT 2009 to 17 DEC 2009

09127

# AIRPORT DIAGRAM

AL-110 (FAA)

DAYTONA BEACH INTL (DAB)  
DAYTONA BEACH, FLORIDA



# AIRPORT DIAGRAM

09127

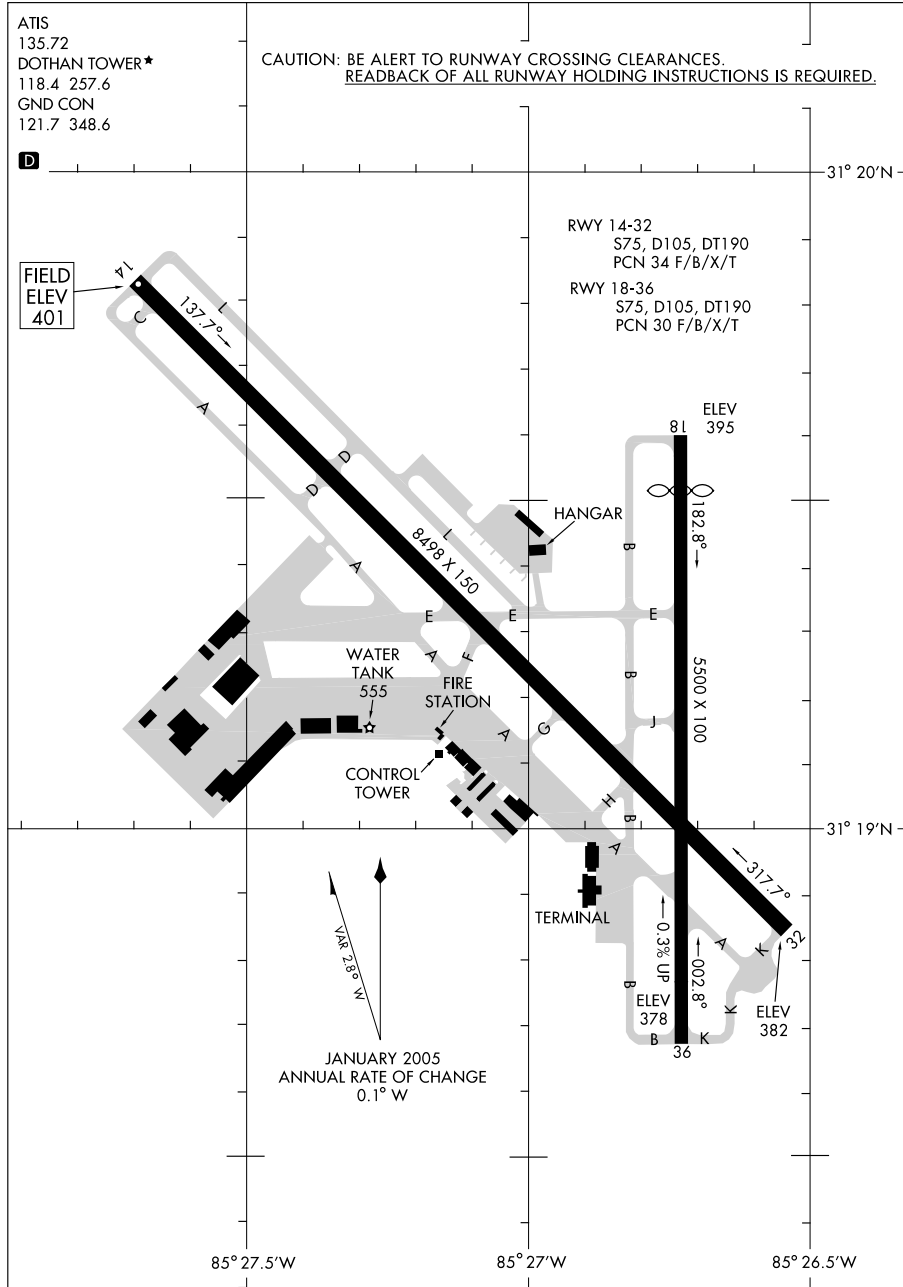
DAYTONA BEACH, FLORIDA  
DAYTONA BEACH INTL (DAB)



09295

## AIRPORT DIAGRAM

AL-123 (FAA)

DOTHAN RGNL (DHN)  
DOTHAN, ALABAMA

## AIRPORT DIAGRAM

09295

DOTHAN, ALABAMA  
DOTHAN RGNL (DHN)

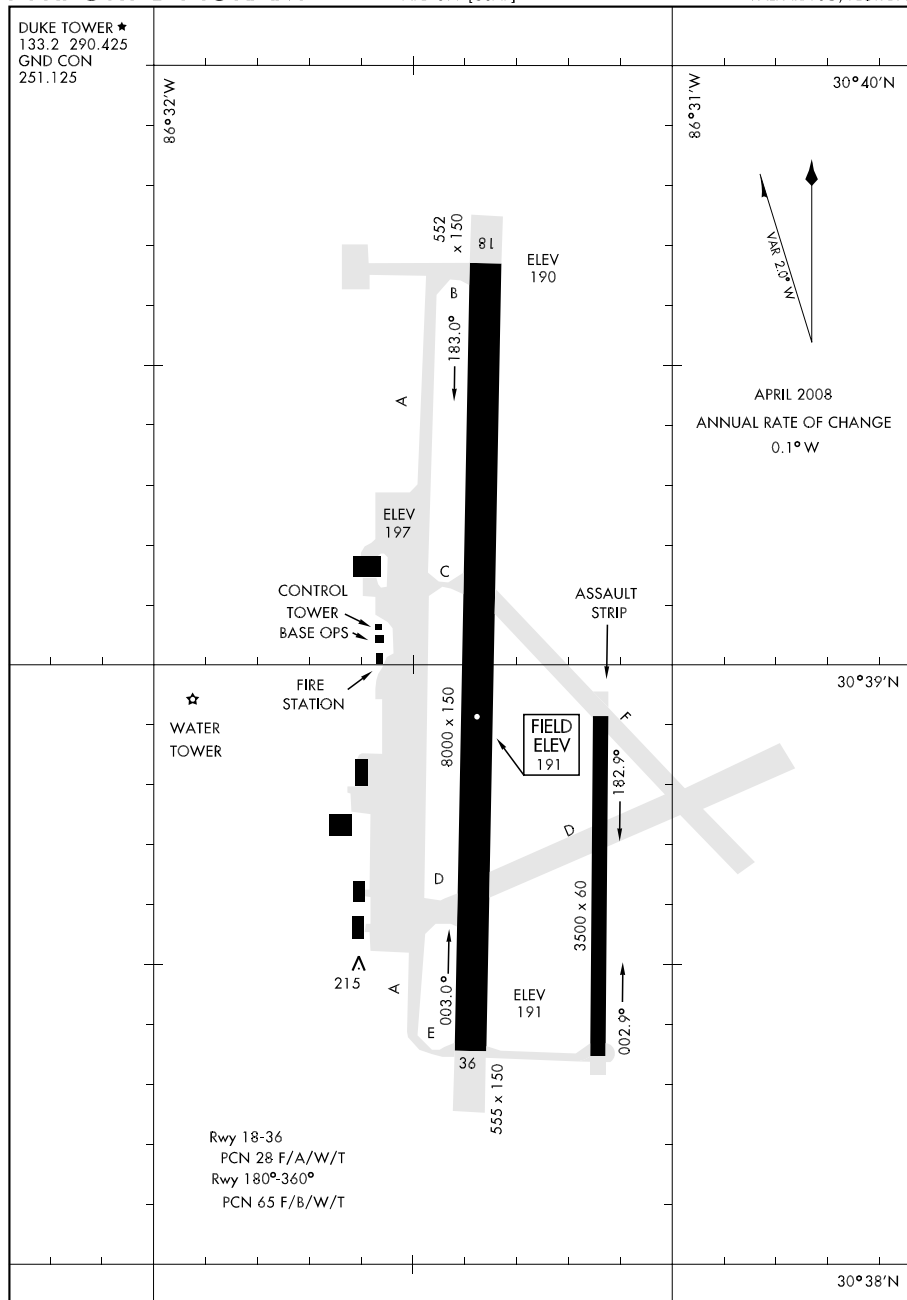
08101

## AIRPORT DIAGRAM

AFD-699 [USAF]

DUKE FLD (EGLIN AF AUX NR3) (KEGI)

VALPARAISO, FLORIDA



## AIRPORT DIAGRAM

VALPARAISO, FLORIDA

DUKE FLD (EGLIN AF AUX NR3) (KEGI)



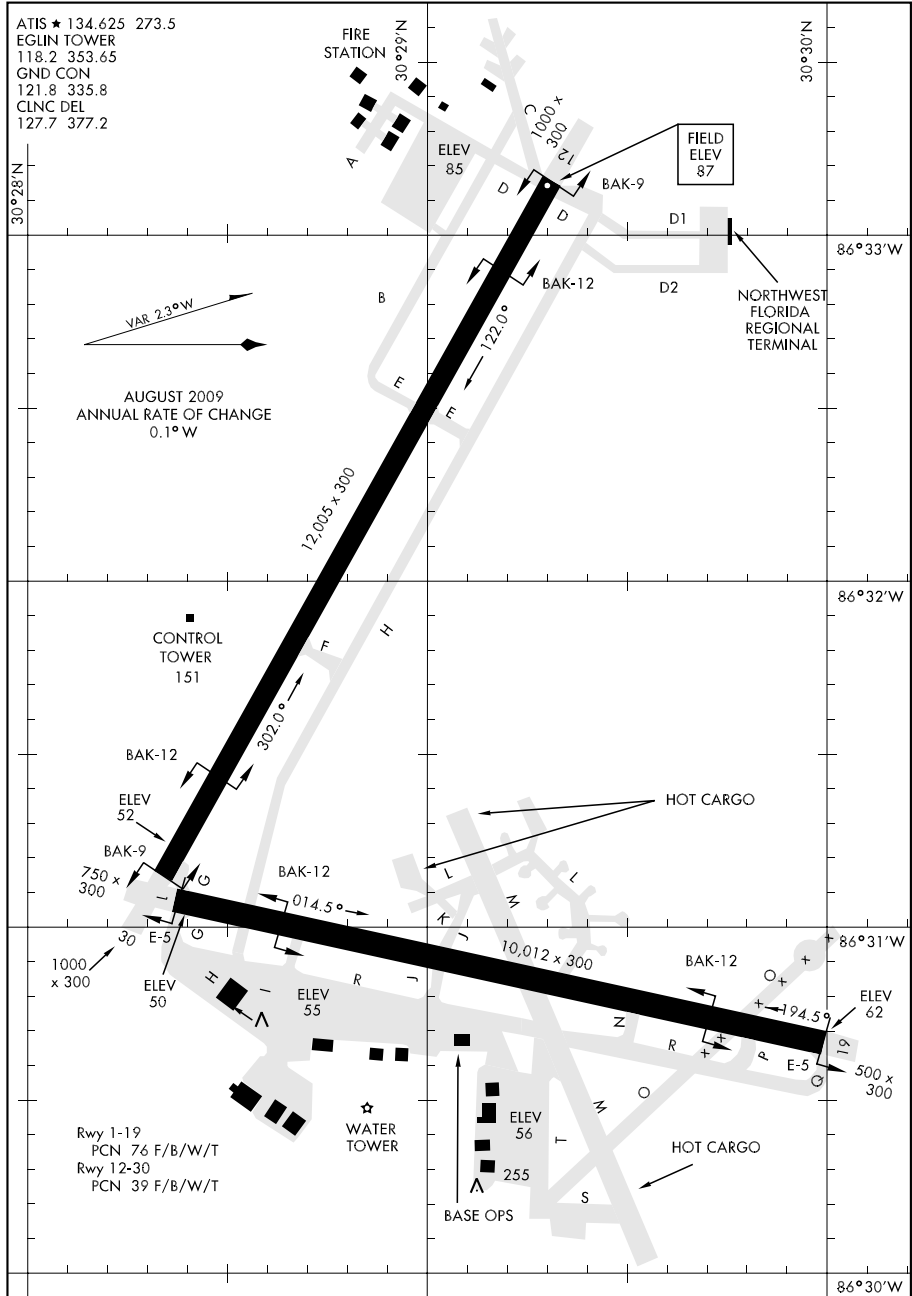
09239

## AIRPORT DIAGRAM

AFD-436 [USAF]

EGLIN AFB (KVPS)

VALPARAISO, FLORIDA



## AIRPORT DIAGRAM

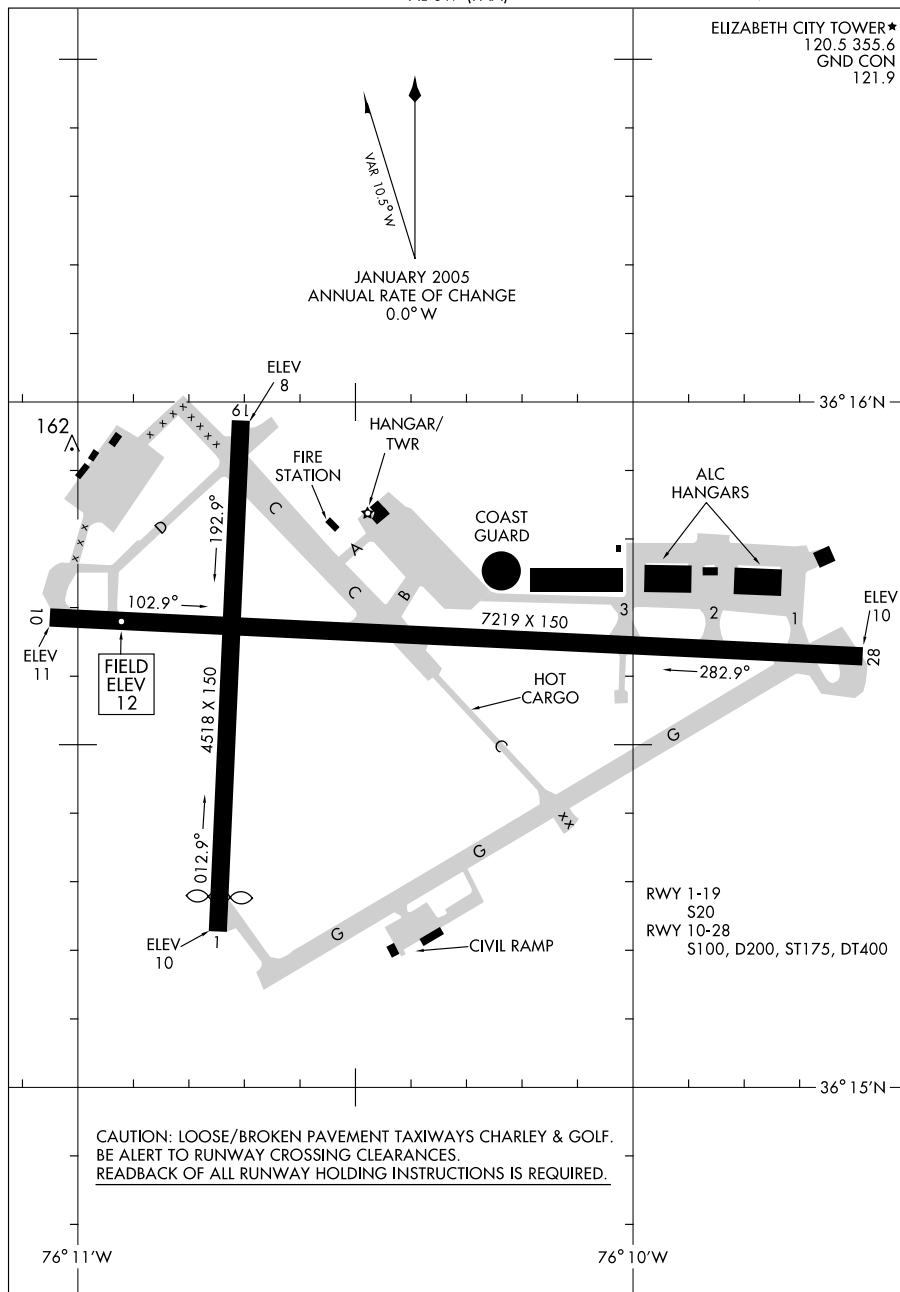
VALPARAISO, FLORIDA

EGLIN AFB (KVPS)

09295

## AIRPORT DIAGRAM

ELIZABETH CITY COAST GUARD AIR STATION/RGNL (ECG)  
AL-617 (FAA) ELIZABETH CITY, NORTH CAROLINA



## AIRPORT DIAGRAM

09295

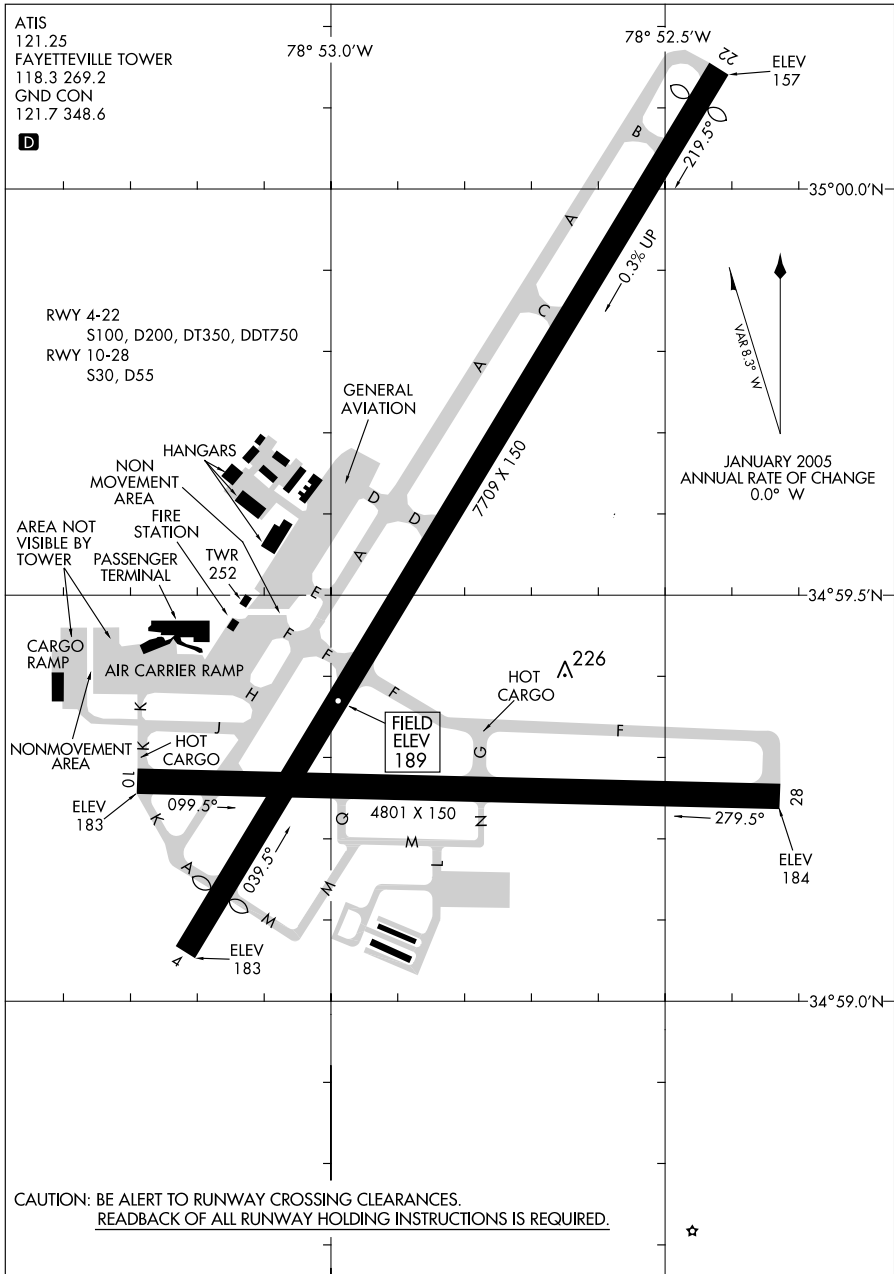
09239

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

## AIRPORT DIAGRAM

AL-690 (FAA)

FAYETTEVILLE, NORTH CAROLINA



## AIRPORT DIAGRAM

FAYETTEVILLE, NORTH CAROLINA

FAYETTEVILLE RGNL/GRANNIS FIELD (FAY)

09239

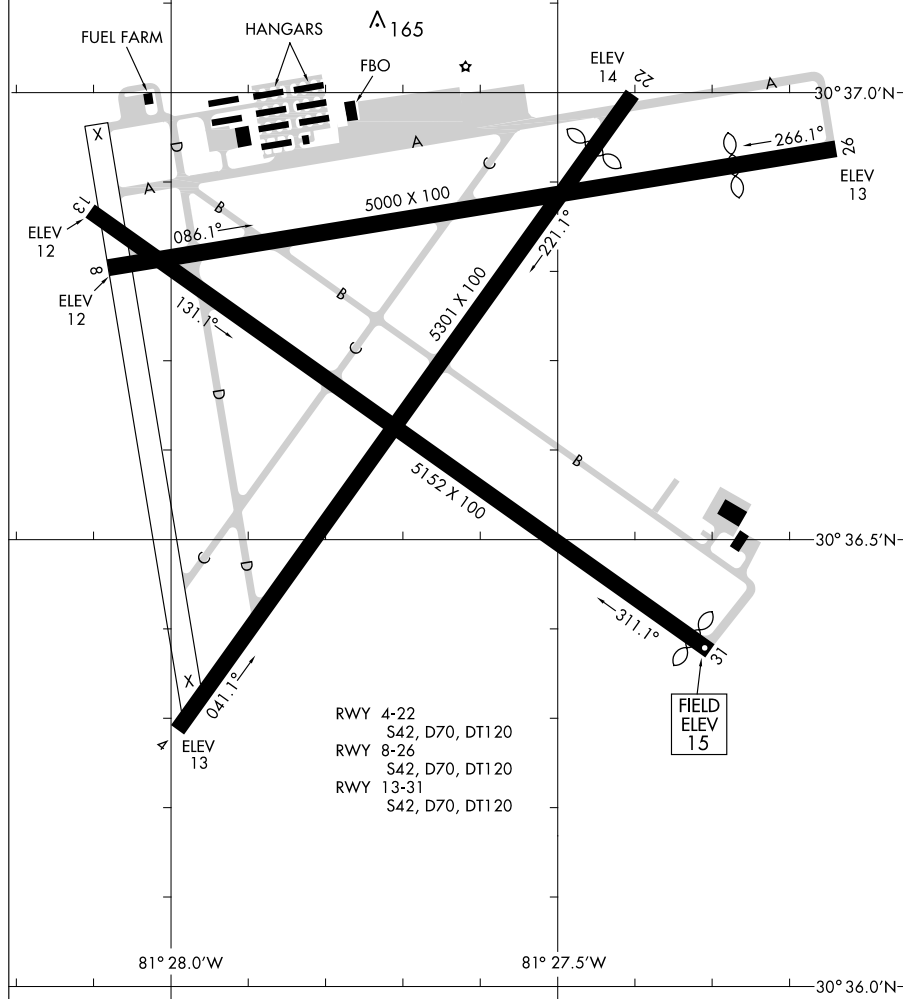
09295

## AIRPORT DIAGRAM

FERNANDINA BEACH MUNI (FHB)  
FERNANDINA BEACH, FLORIDAAWOS-3  
118.075  
CTAF/UNICOM  
122.7

D

AL-6597 (FAA)

JANUARY 2005  
ANNUAL RATE OF CHANGE  
0.1° W

## AIRPORT DIAGRAM

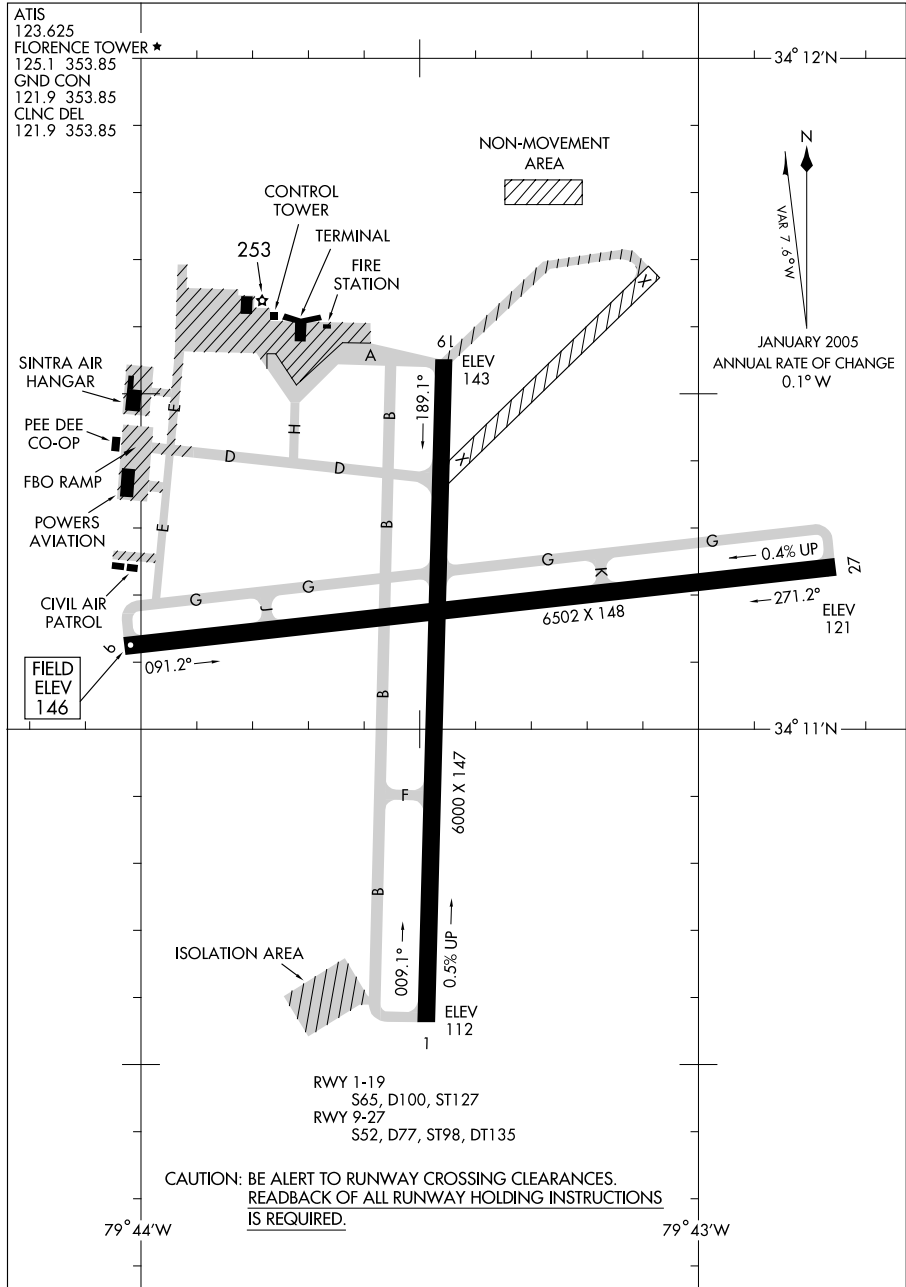
09295

FERNANDINA BEACH, FLORIDA  
FERNANDINA BEACH MUNI (FHB)

09015

## AIRPORT DIAGRAM

AL-145 (FAA)

FLORENCE RGNL (FLO)  
FLORENCE, SOUTH CAROLINA

## AIRPORT DIAGRAM

09015

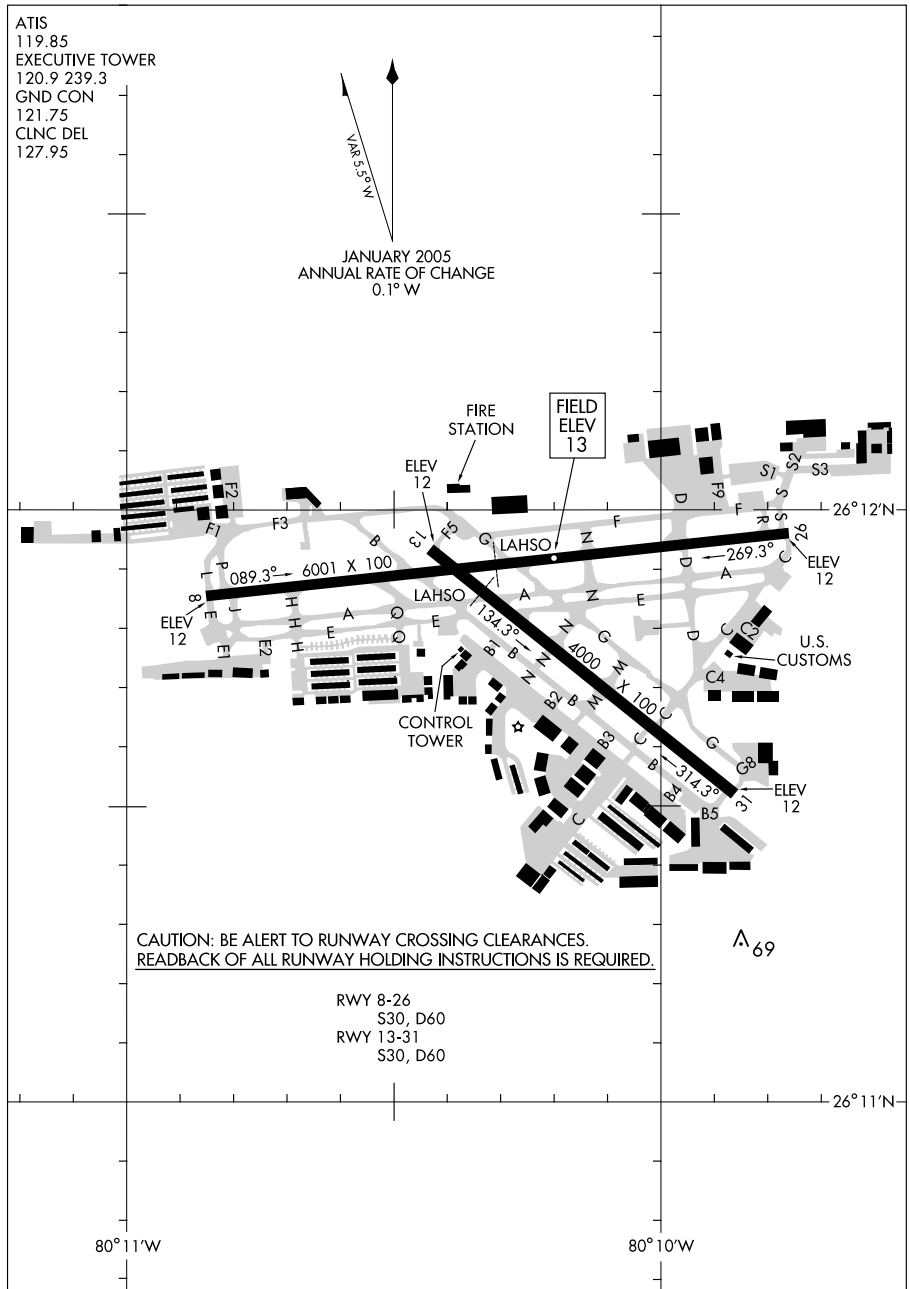
FLORENCE, SOUTH CAROLINA  
FLORENCE RGNL (FLO)

09239

# AIRPORT DIAGRAM

AL-5942 (FAA)

FORT LAUDERDALE EXECUTIVE (FXE)  
FORT LAUDERDALE, FLORIDA



## AIRPORT DIAGRAM

09239

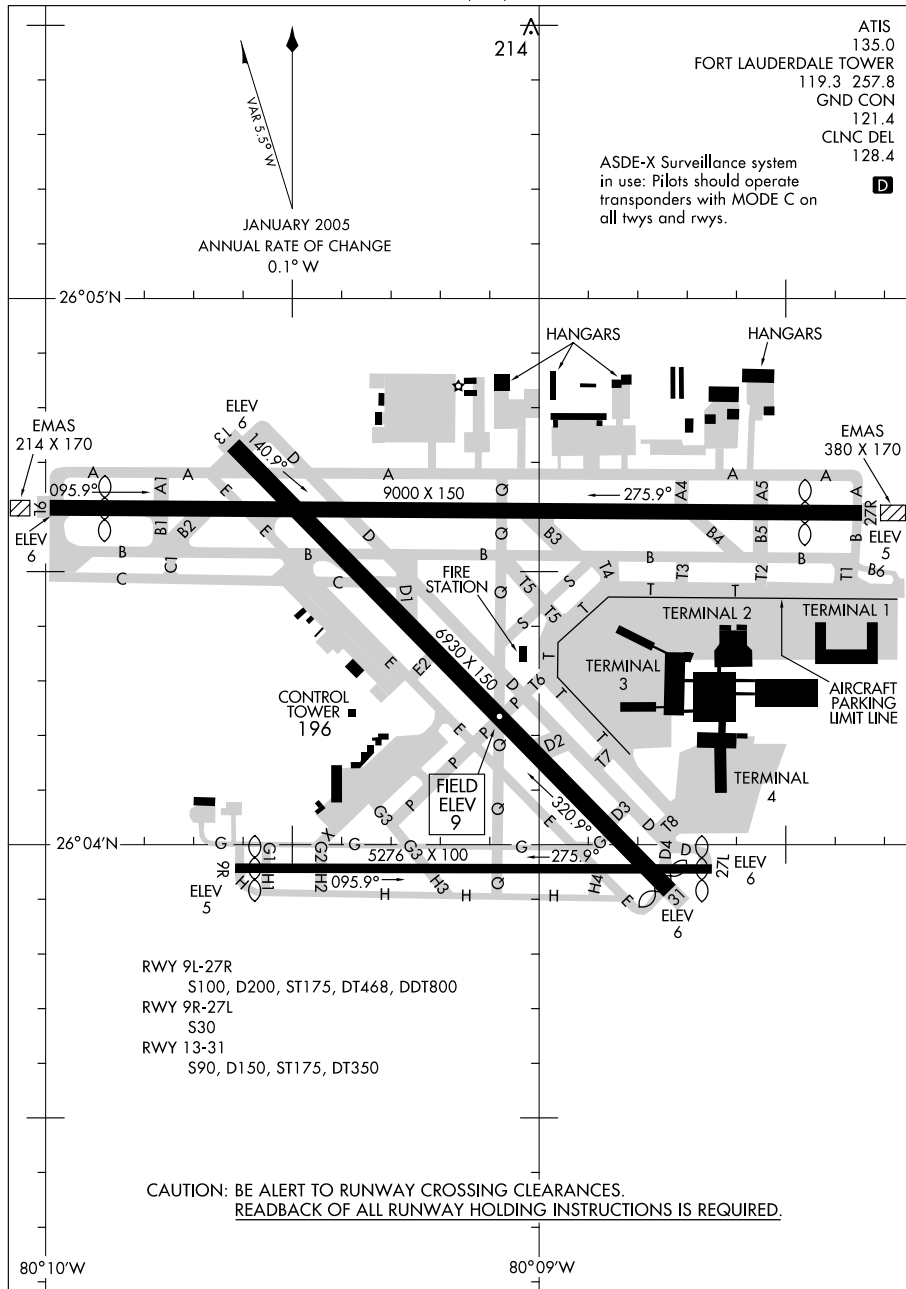
FORT LAUDERDALE, FLORIDA  
FORT LAUDERDALE EXECUTIVE (FXE)

09015

# AIRPORT DIAGRAM

FORT LAUDERDALE-HOLLYWOOD INTL (FLL)  
AA) FORT LAUDERDALE, FLORIDA

AL-744 (FAA)



## AIRPORT DIAGRAM

09015

FORT LAUDERDALE, FLORIDA  
FORT LAUDERDALE-HOLLYWOOD INTL (FLL)

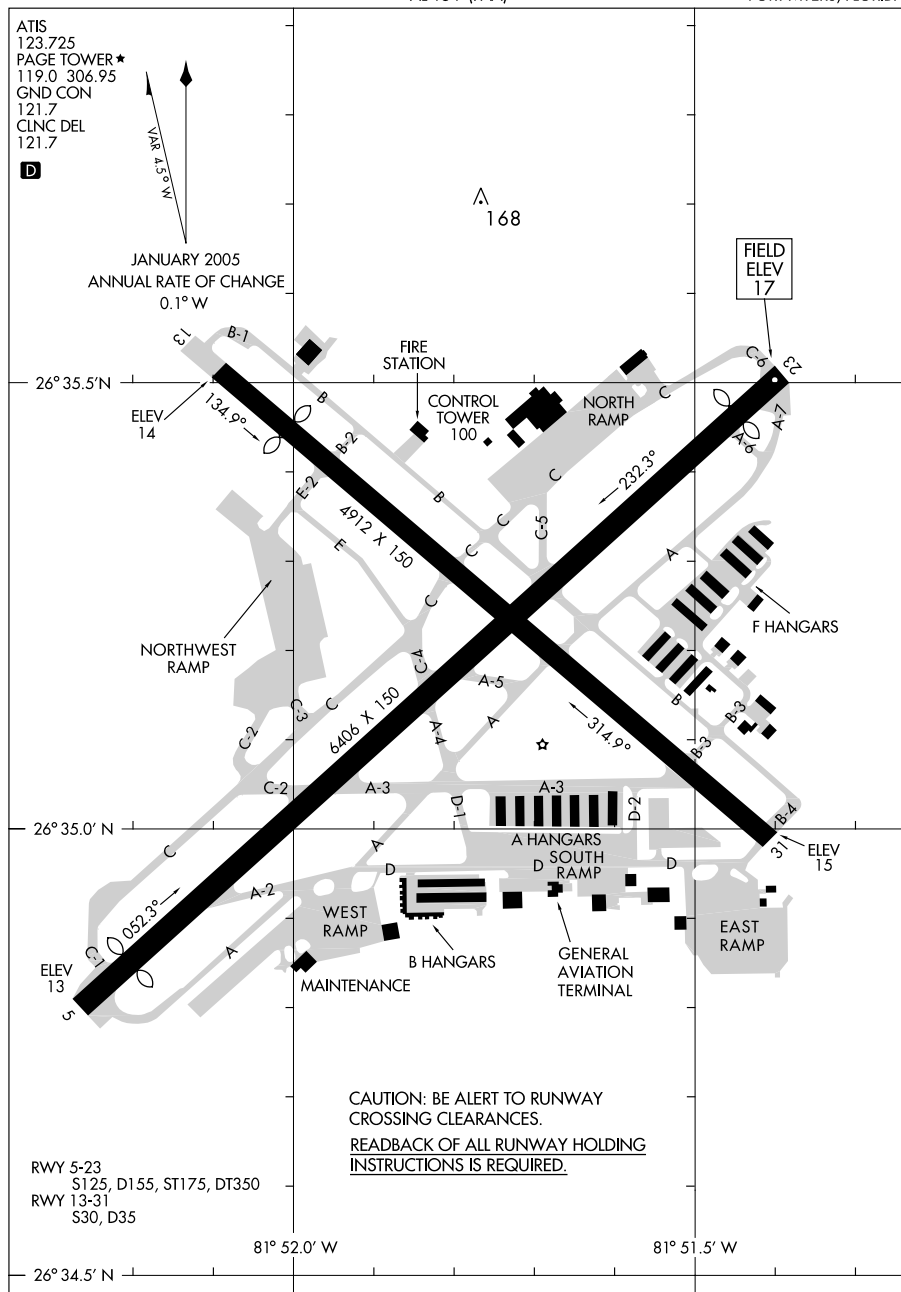
09239

## AIRPORT DIAGRAM

AL-154 (FAA)

FORT MYERS /PAGE FIELD (FMY)

FORT MYERS, FLORIDA



## AIRPORT DIAGRAM

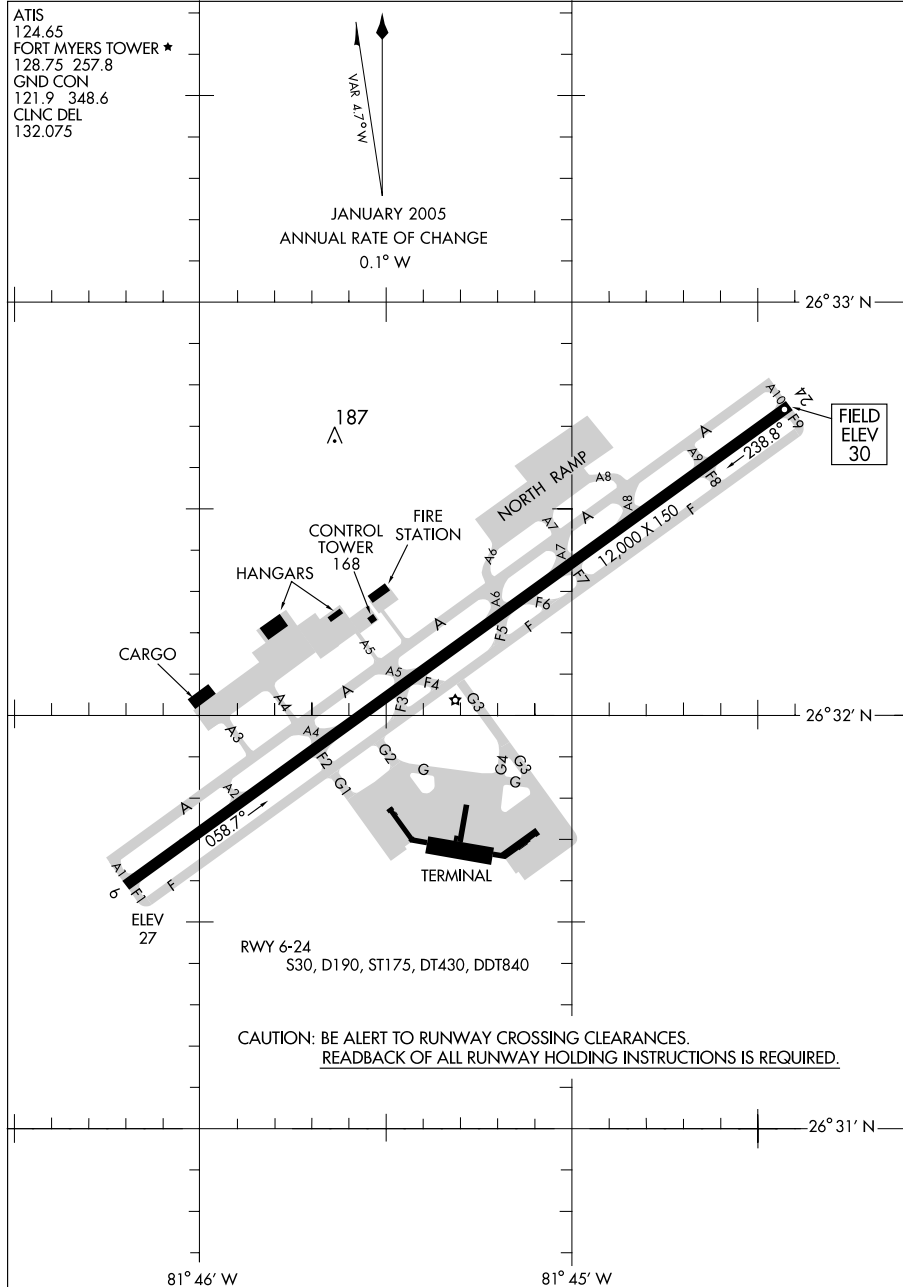
09239

FORT MYERS, FLORIDA  
FORT MYERS /PAGE FIELD (FMY)



09183

## AIRPORT DIAGRAM

FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)  
AL-6757 (FAA) FORT MYERS, FLORIDA

## AIRPORT DIAGRAM

09183

FORT MYERS, FLORIDA  
FORT MYERS/SOUTHWEST FLORIDA INTL (RSW)

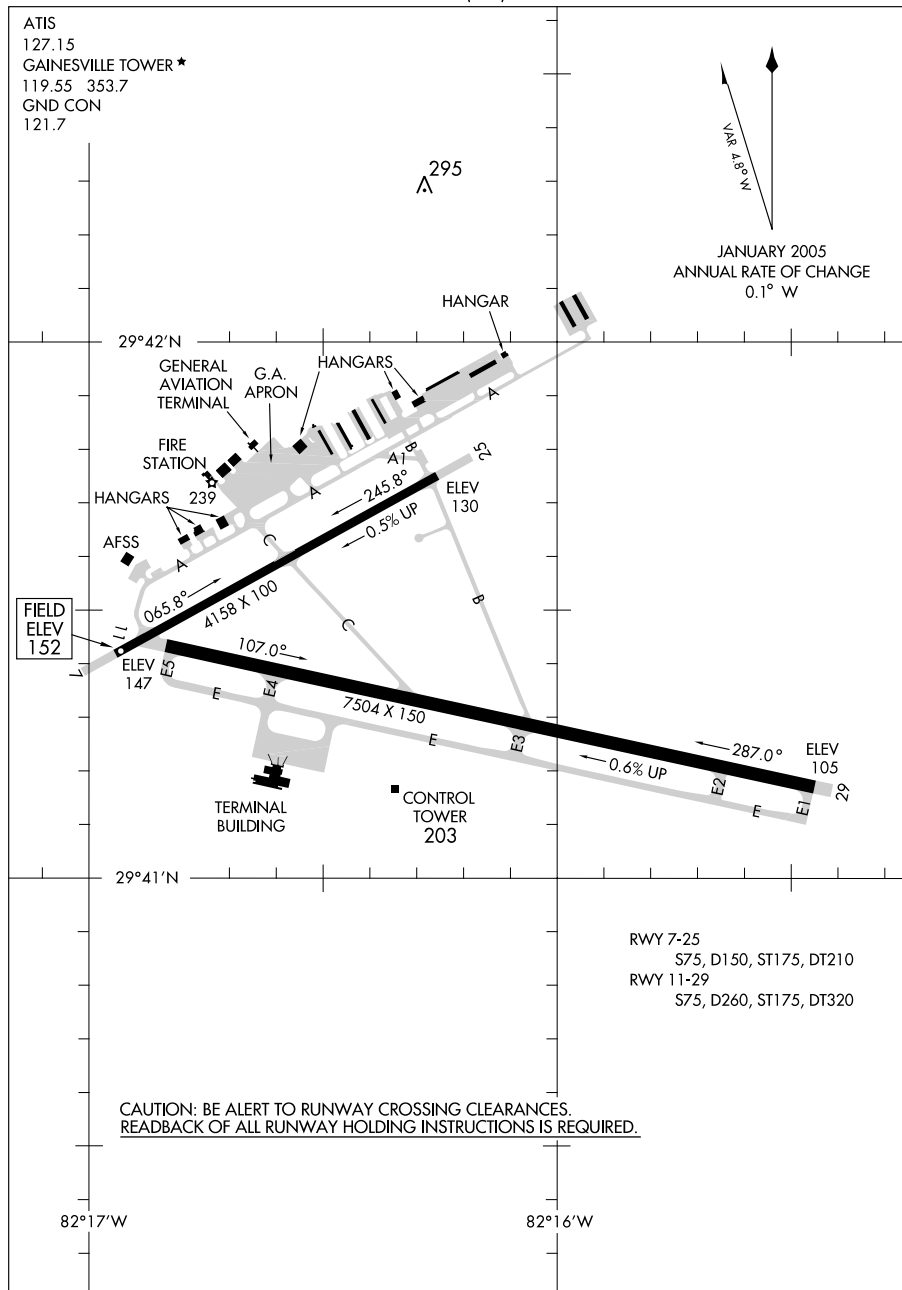




08157

## AIRPORT DIAGRAM

AL-973 (FAA)

GAINESVILLE RGNL (GNV)  
GAINESVILLE, FLORIDA

## AIRPORT DIAGRAM

08157

GAINESVILLE, FLORIDA  
GAINESVILLE RGNL (GNV)

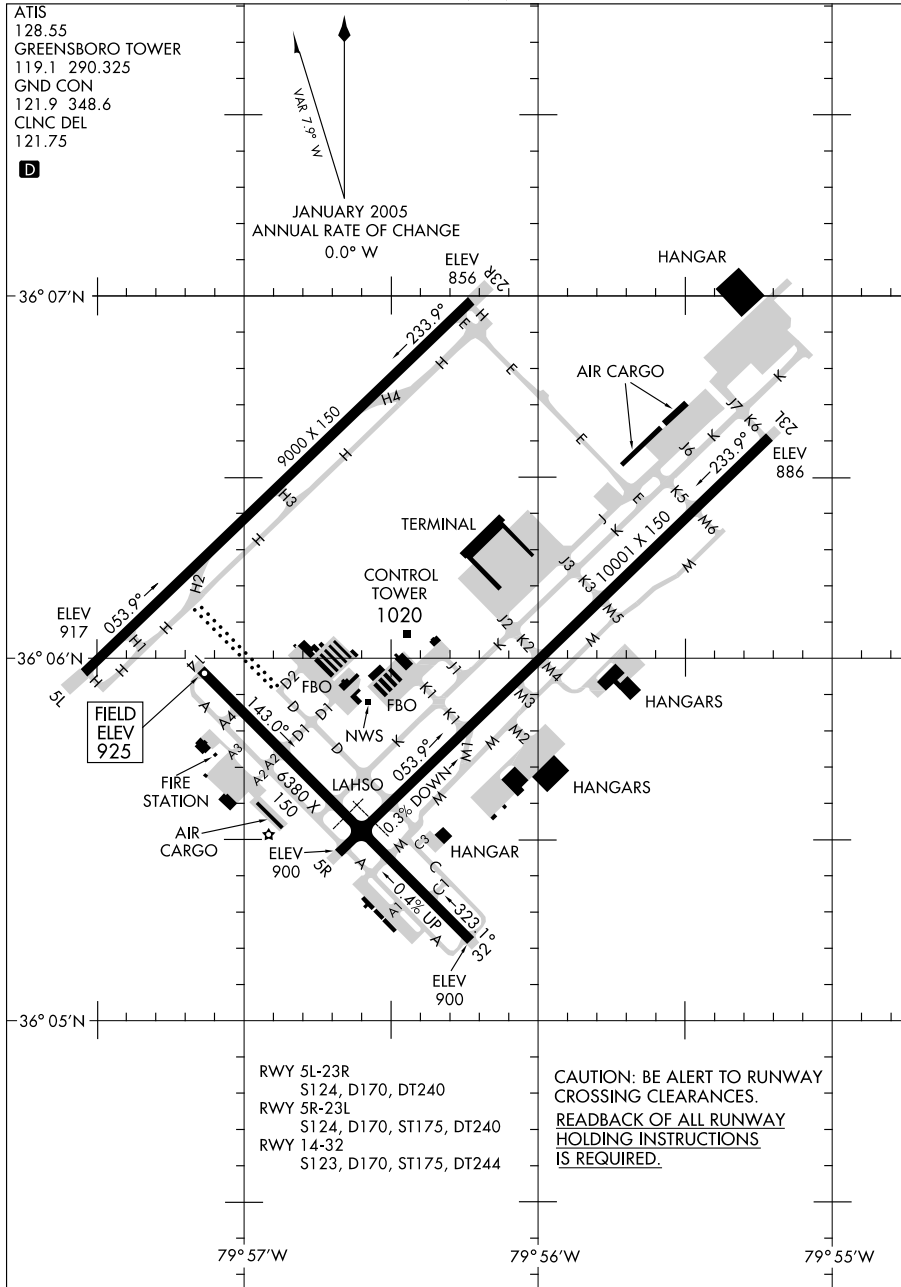
09295

## AIRPORT DIAGRAM

GREENSBORO/PIEDMONT TRIAD INTL (GSO)

AL-178 (FAA)

GREENSBORO, NORTH CAROLINA



## AIRPORT DIAGRAM

09295

GREENSBORO, NORTH CAROLINA  
GREENSBORO/PIEDMONT TRIAD INTL (GSO)

09295

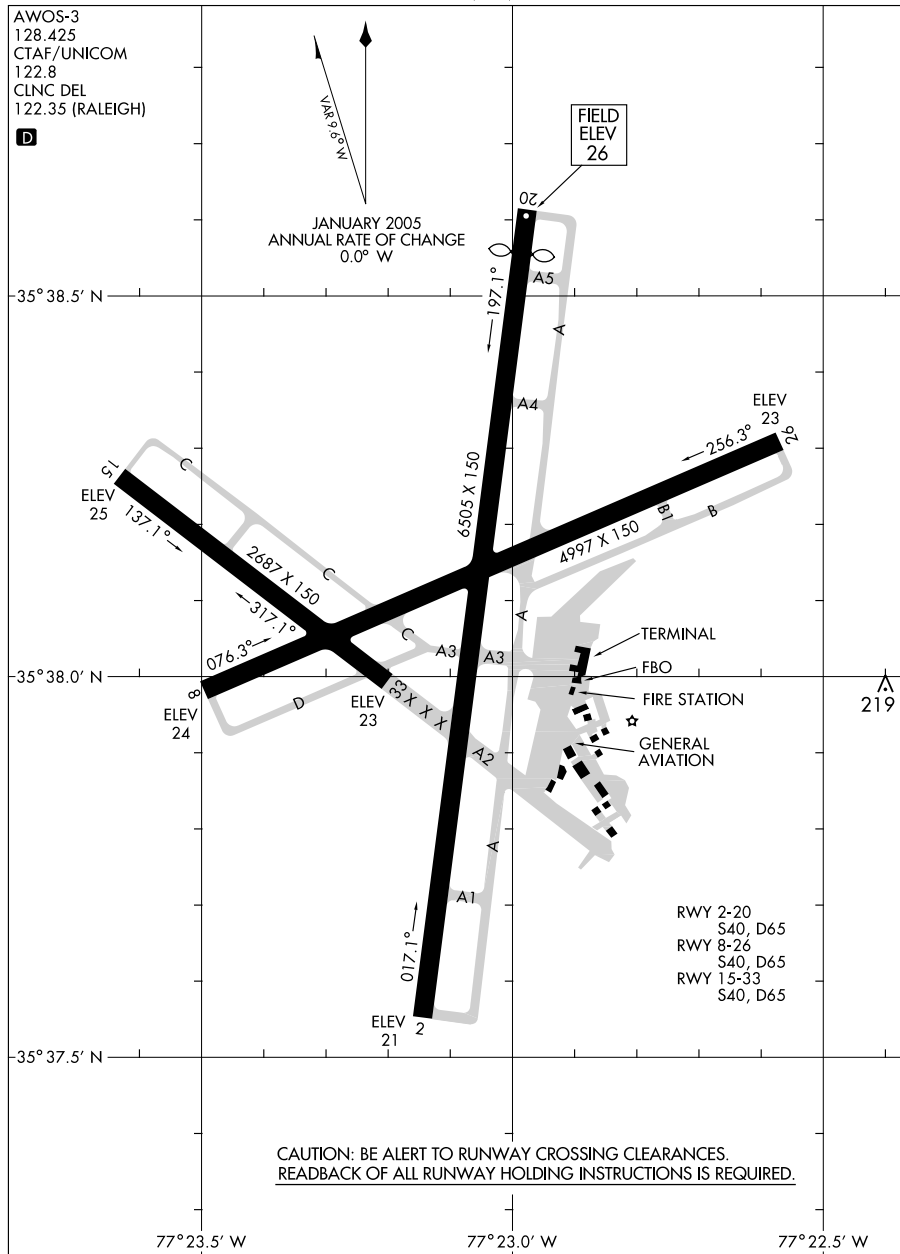
## AIRPORT DIAGRAM

AL-5521 (FAA)

GREENVILLE/PITT-GREENVILLE (PGV)  
GREENVILLE, NORTH CAROLINA

AWOS-3  
128.425  
CTAF/UNICOM  
122.8  
CLNC DEL  
122.35 (RALEIGH)

D



## AIRPORT DIAGRAM

09295

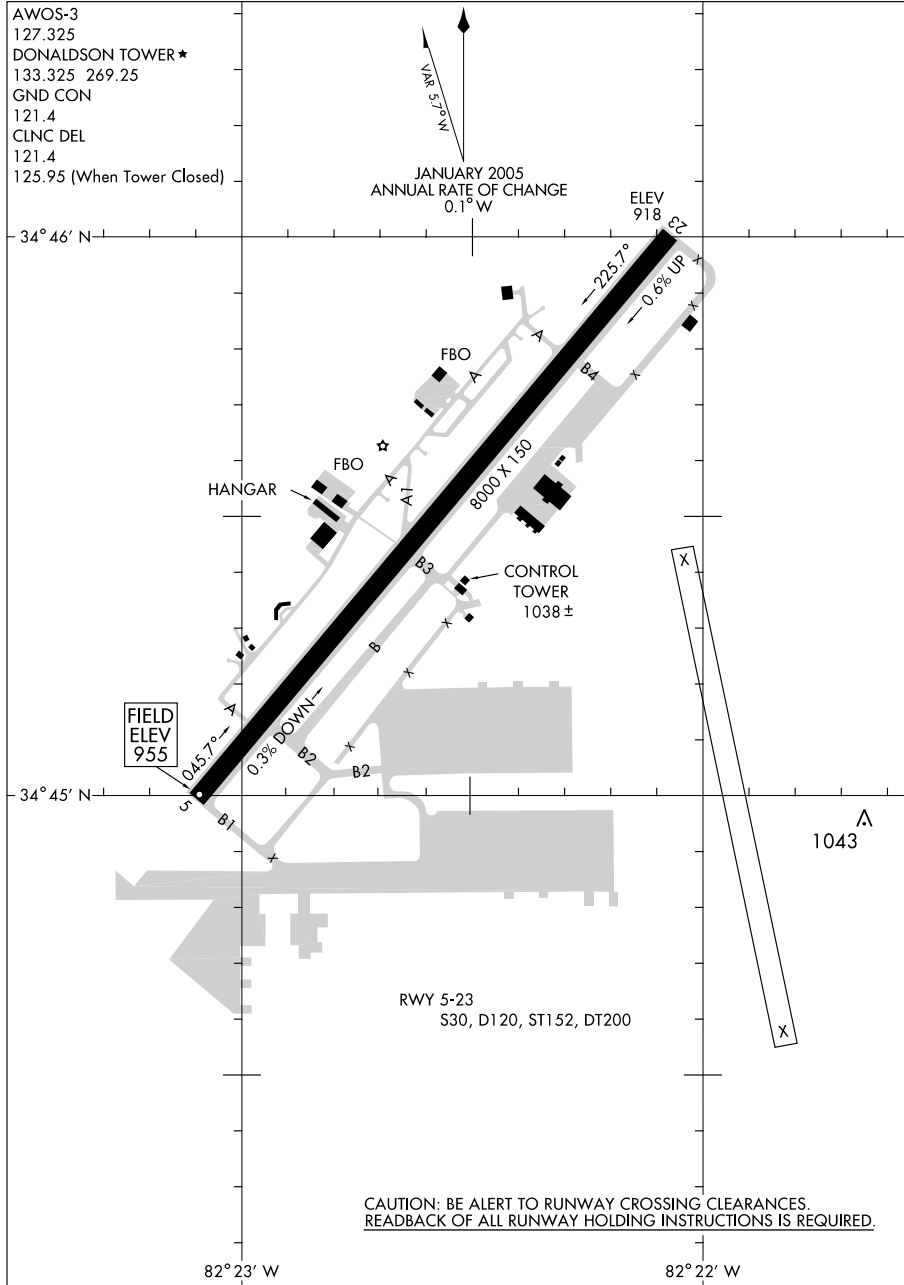
GREENVILLE, NORTH CAROLINA  
GREENVILLE/PITT-GREENVILLE (PGV)

09071

## AIRPORT DIAGRAM

GREENVILLE/ DONALDSON CENTER (GYH)

GREENVILLE, SOUTH CAROLINA



## AIRPORT DIAGRAM

09071

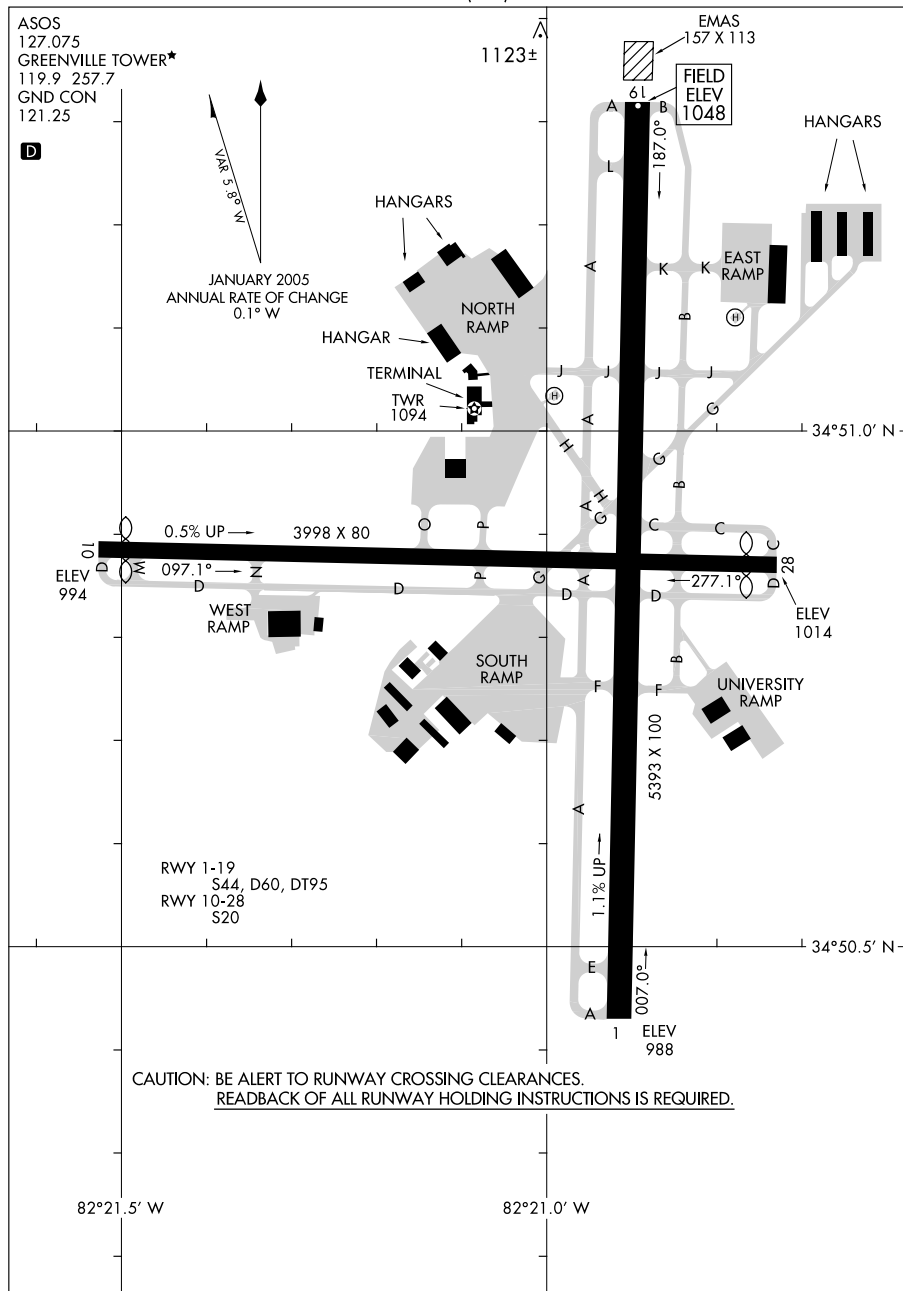
GREENVILLE, SOUTH CAROLINA

GREENVILLE/ DONALDSON CENTER (GYH)

09183

## AIRPORT DIAGRAM

AL-180 (FAA)

GREENVILLE DOWNTOWN (GMU)  
GREENVILLE, SOUTH CAROLINA

## AIRPORT DIAGRAM

09183

GREENVILLE, SOUTH CAROLINA  
GREENVILLE DOWNTOWN (GMU)

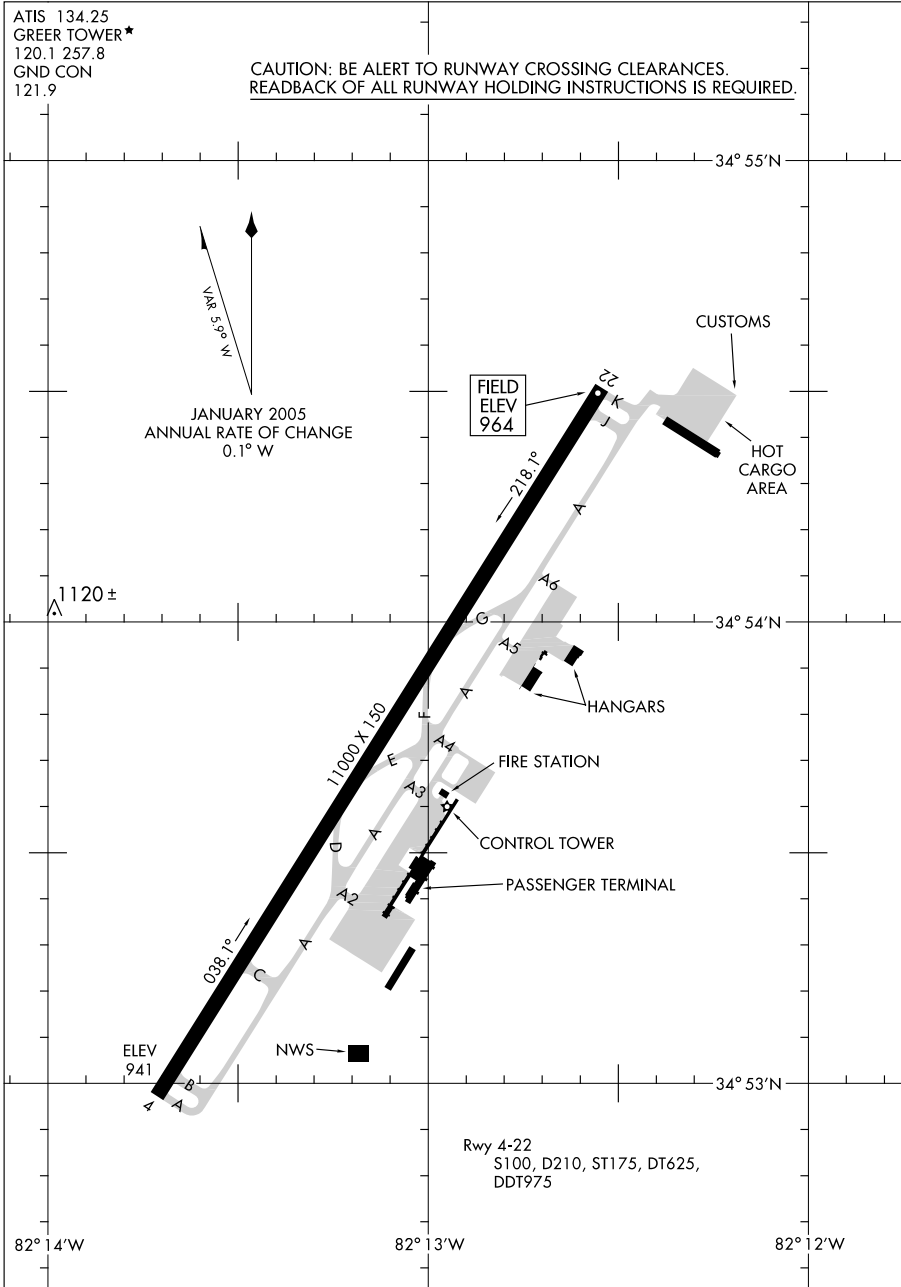


07298

## AIRPORT DIAGRAM

GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)  
AL-5124 (FAA)

GREER, SOUTH CAROLINA



## AIRPORT DIAGRAM

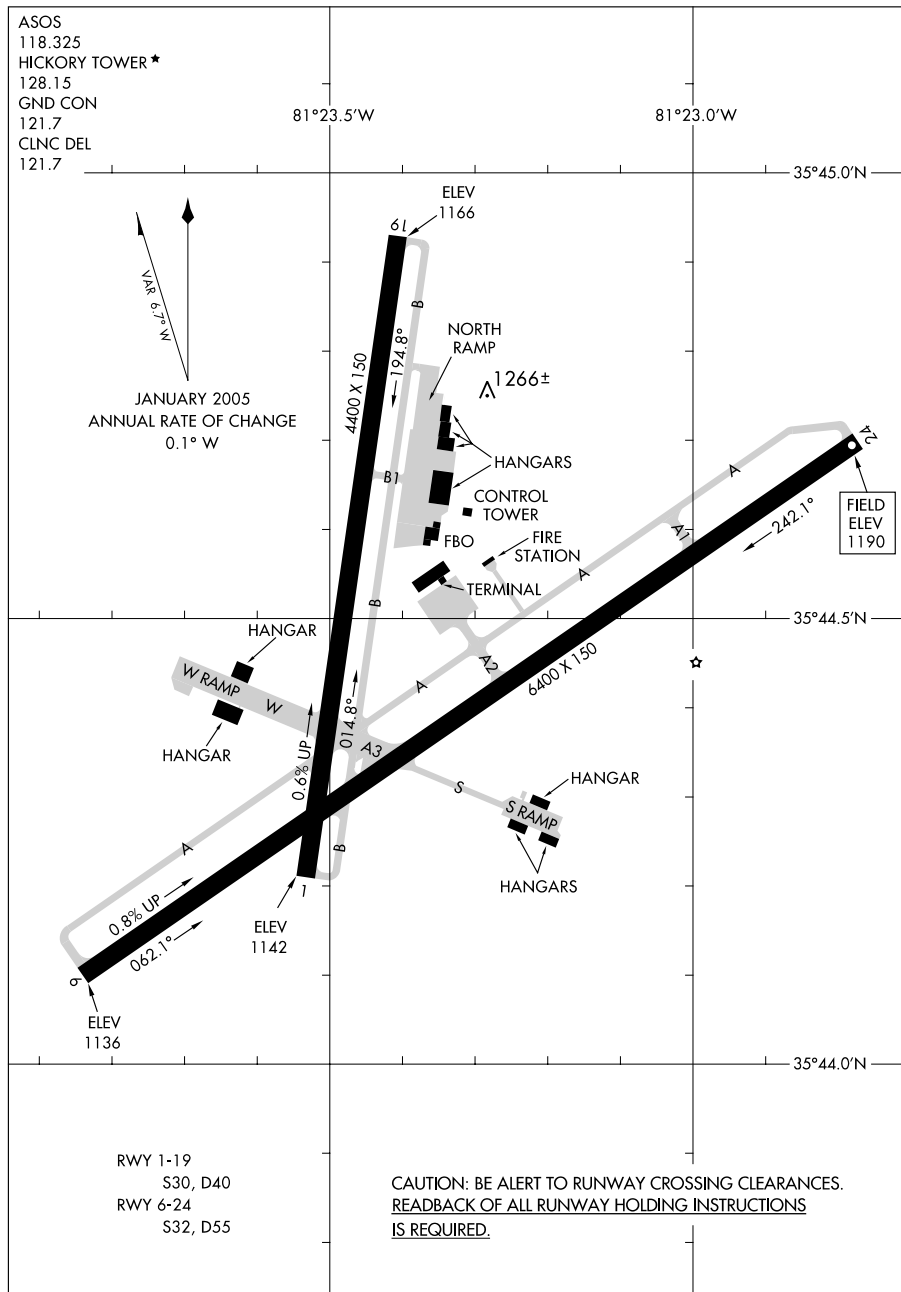
GREER, SOUTH CAROLINA  
GREER/ GREENVILLE-SPARTANBURG INTL-ROGER MILLIKEN (GSP)

07298

09239

## AIRPORT DIAGRAM

AL-706 (FAA)

HICKORY RGNL (HKY)  
HICKORY, NORTH CAROLINA

## AIRPORT DIAGRAM

09239

HICKORY, NORTH CAROLINA  
HICKORY RGNL (HKY)

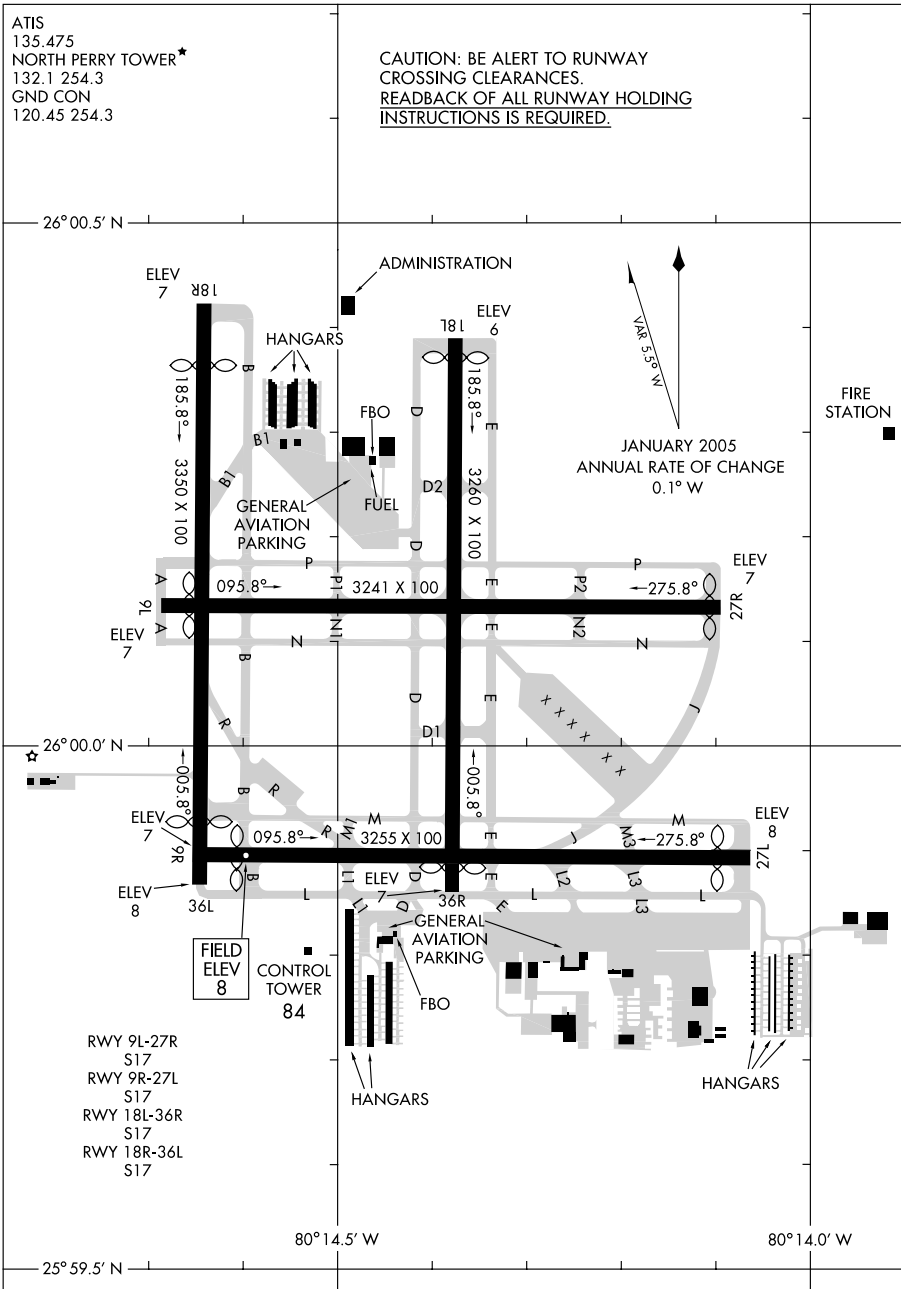
09239

## AIRPORT DIAGRAM

AL-5606 (FAA)

HOLLYWOOD /NORTH PERRY (HWO)

HOLLYWOOD, FLORIDA



## AIRPORT DIAGRAM

09239

HOLLYWOOD, FLORIDA  
HOLLYWOOD /NORTH PERRY (HWO)

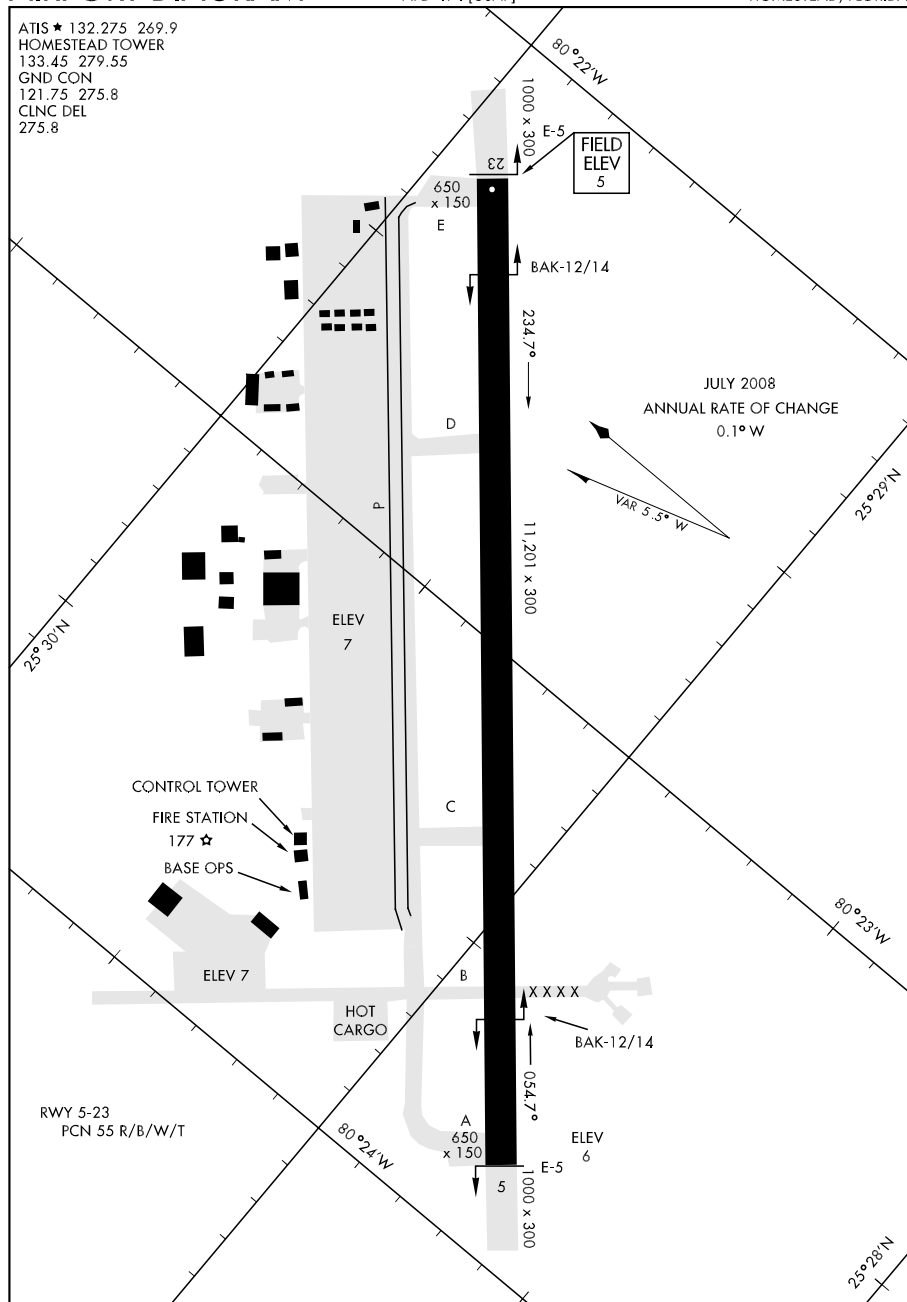
08241

## AIRPORT DIAGRAM

AFD-494 [USAF]

HOMESTEAD ARB (KHST)

HOMESTEAD, FLORIDA



## AIRPORT DIAGRAM

HOMESTEAD, FLORIDA  
HOMESTEAD ARB (KHST)

09127

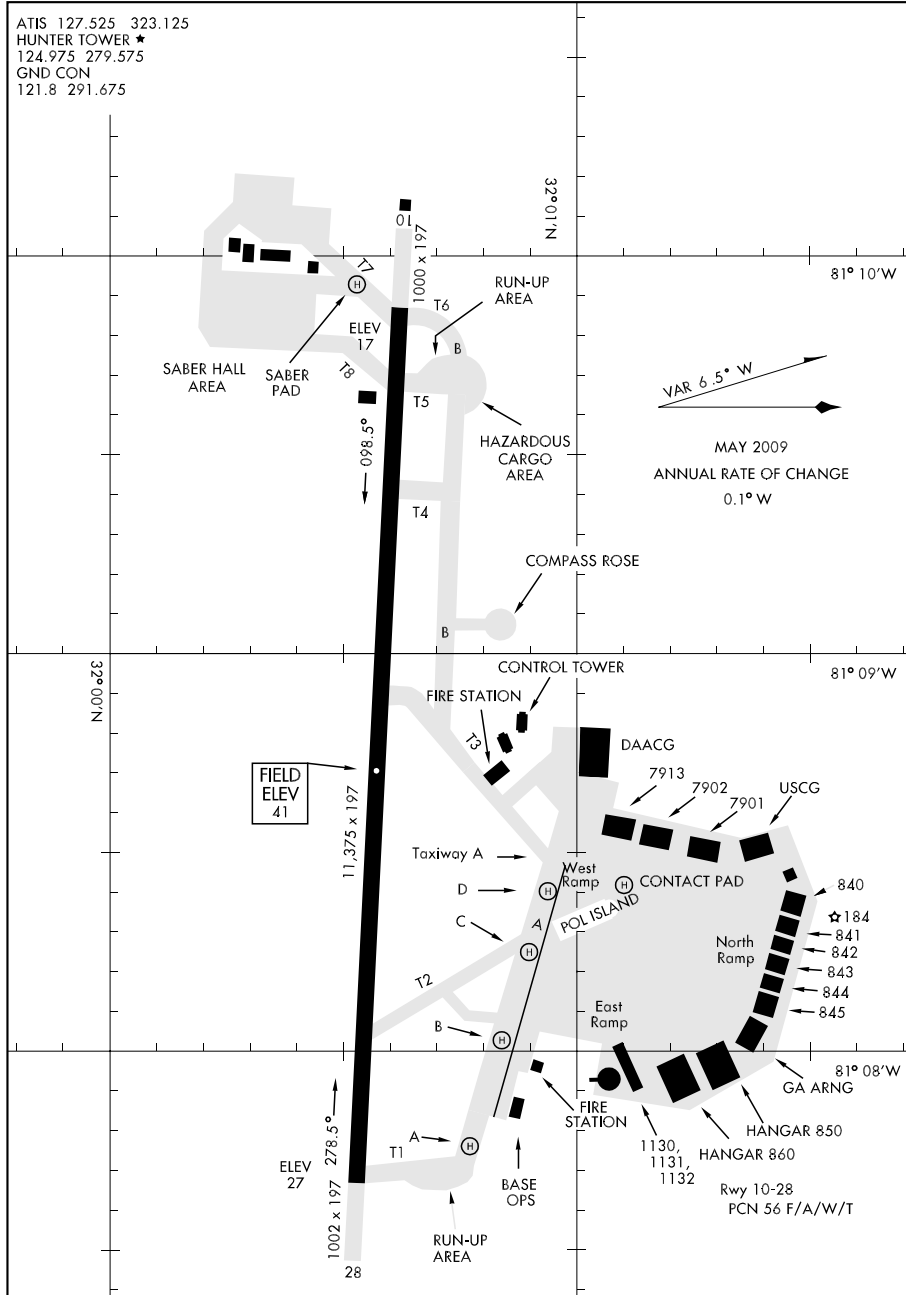
## AIRPORT DIAGRAM

AFD-381 [USA]

HUNTER AAF (KSVN)

SAVANNAH, GEORGIA

ATIS 127.525 323.125  
 HUNTER TOWER ★  
 124.975 279.575  
 GND CON  
 121.8 291.675



## AIRPORT DIAGRAM

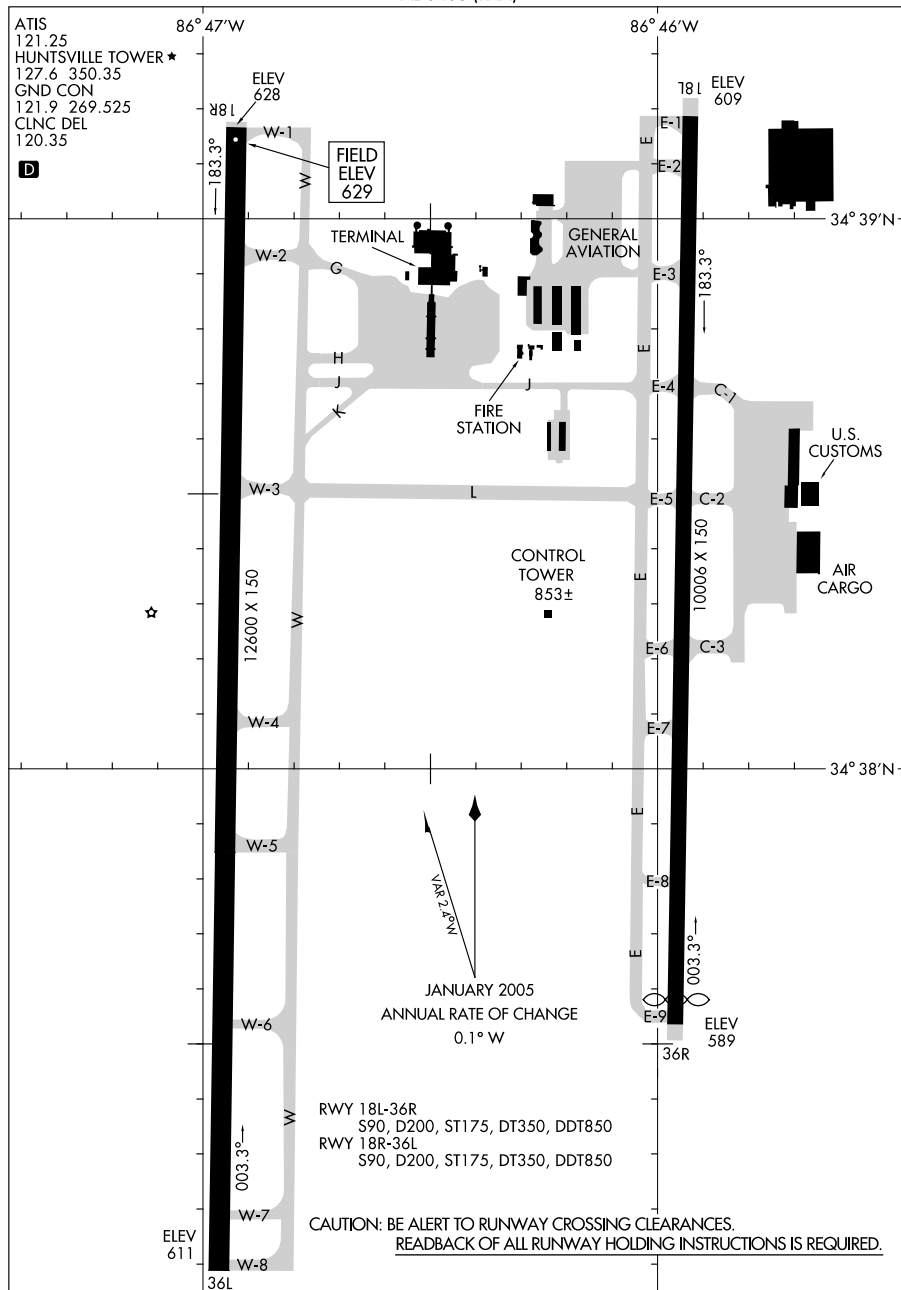
SAVANNAH, GEORGIA  
 HUNTER AAF (KSVN)

09015

## AIRPORT DIAGRAM

HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)  
HUNTSVILLE, ALABAMA

AL-5488 (FAA)



## AIRPORT DIAGRAM

09015

HUNTSVILLE, ALABAMA  
HUNTSVILLE INTL-CARL T. JONES FIELD (HSV)

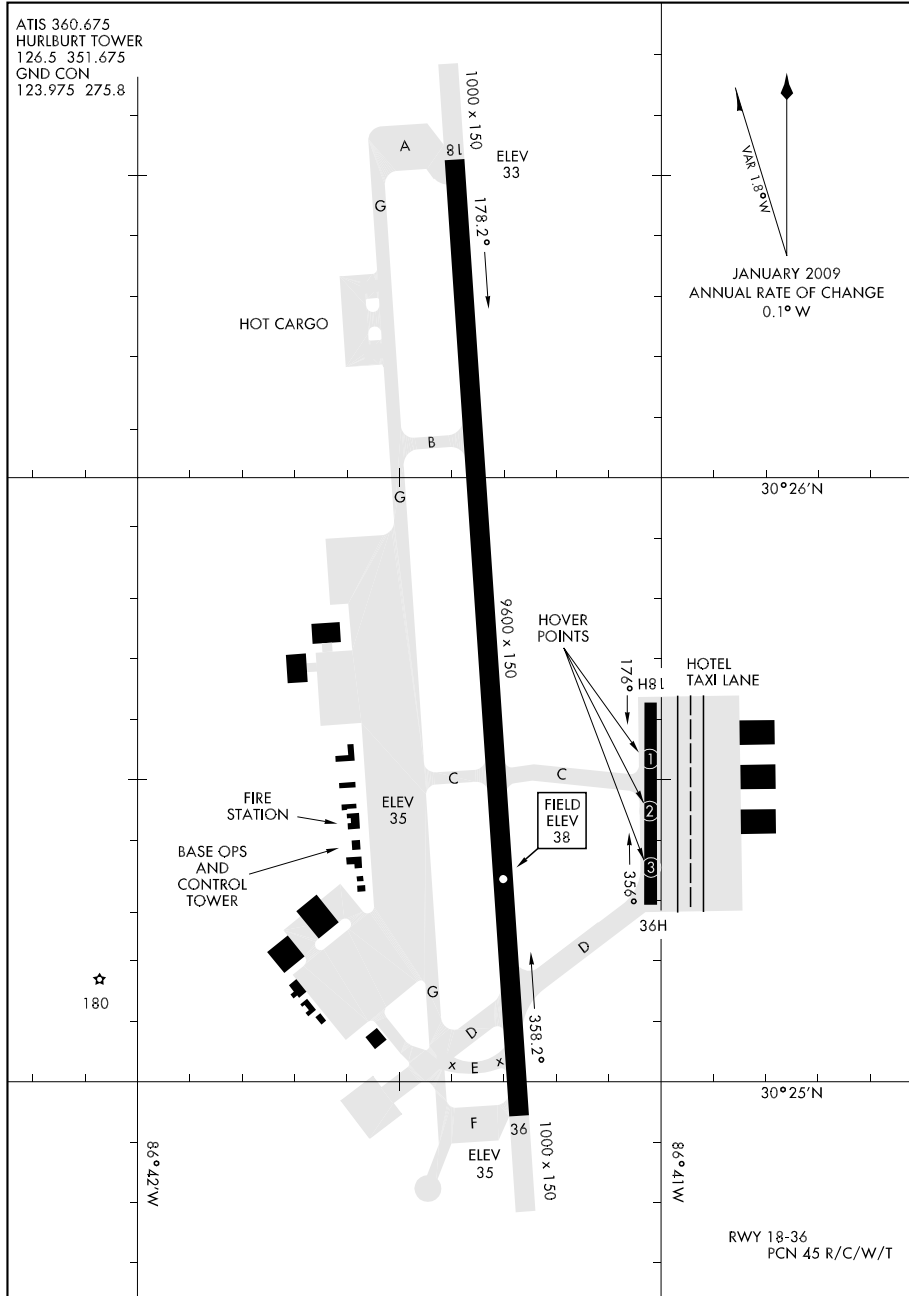
09015

## AIRPORT DIAGRAM

AFD-734 [USAF]

HURLBURT FLD (KHRT)

MARY ESTHER, FLORIDA



## AIRPORT DIAGRAM

MARY ESTHER, FLORIDA  
HURLBURT FLD (KHRT)

08325

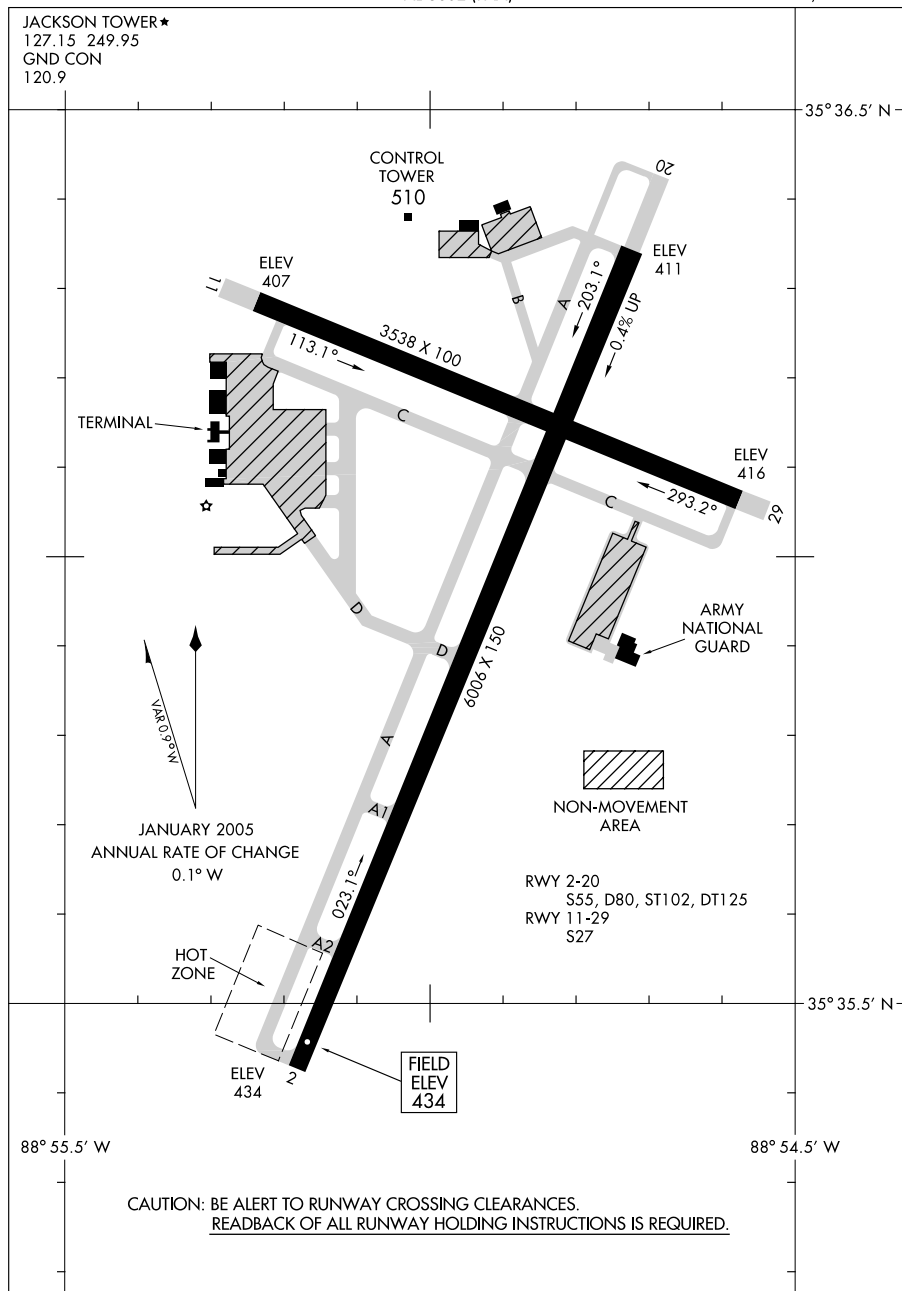
## AIRPORT DIAGRAM

JACKSON/McKELLAR-SIPES RGNL (MKL)

AL-5062 (FAA)

JACKSON, TENNESSEE

JACKSON TOWER ★  
 127.15 249.95  
 GND CON  
 120.9



## AIRPORT DIAGRAM

08325

JACKSON, TENNESSEE  
 JACKSON/McKELLAR-SIPES RGNL (MKL)



09155

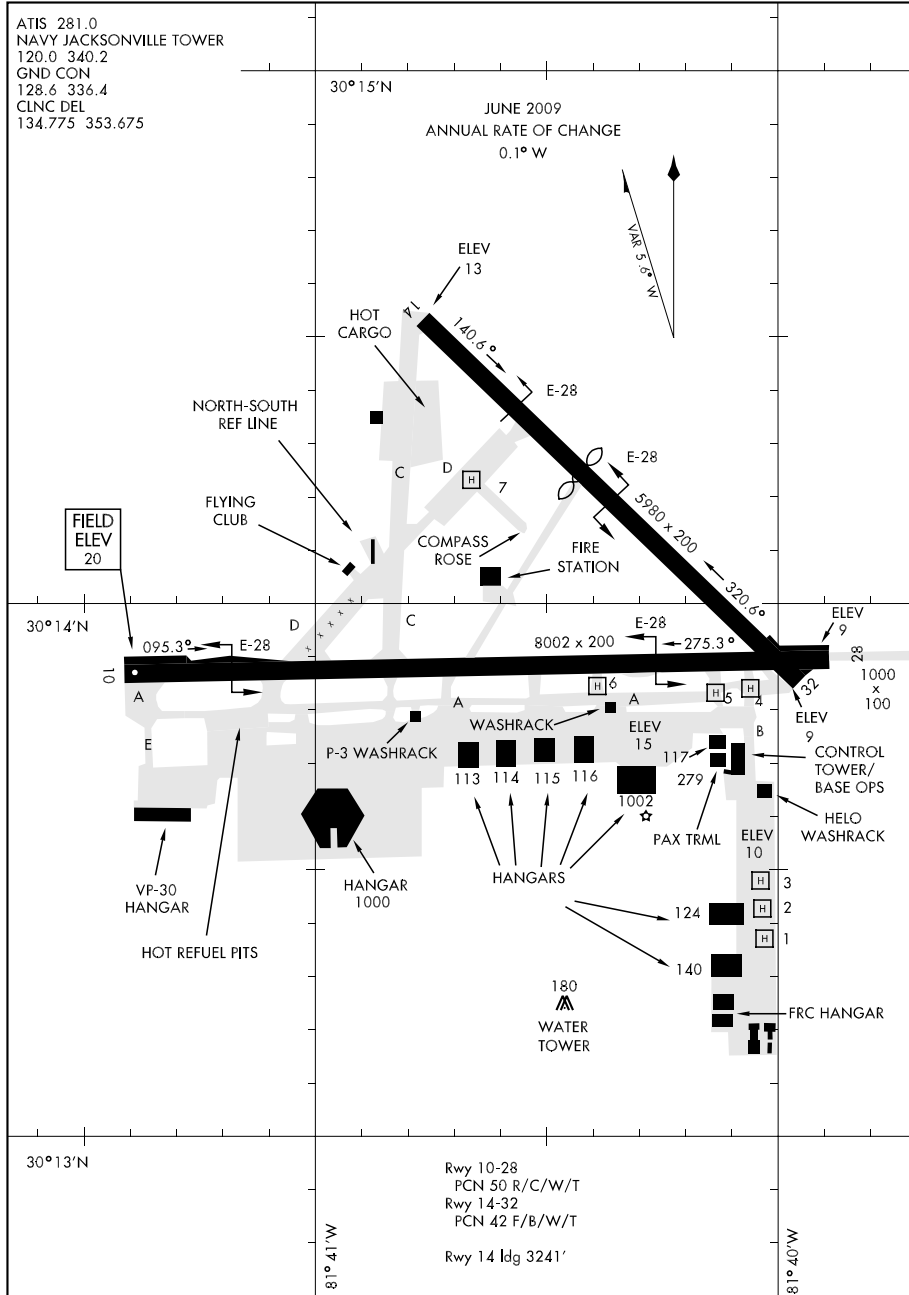
JACKSONVILLE NAS (KNIP)

## AIRPORT DIAGRAM

AFD-209 [USN]

JACKSONVILLE, FLORIDA

ATIS 281.0  
NAVY JACKSONVILLE TOWER  
120.0 340.2  
GND CON  
128.6 336.4  
CLNC DEL  
134.775 353.675



## AIRPORT DIAGRAM

JACKSONVILLE, FLORIDA  
JACKSONVILLE NAS (KNIP)

08157

## AIRPORT DIAGRAM

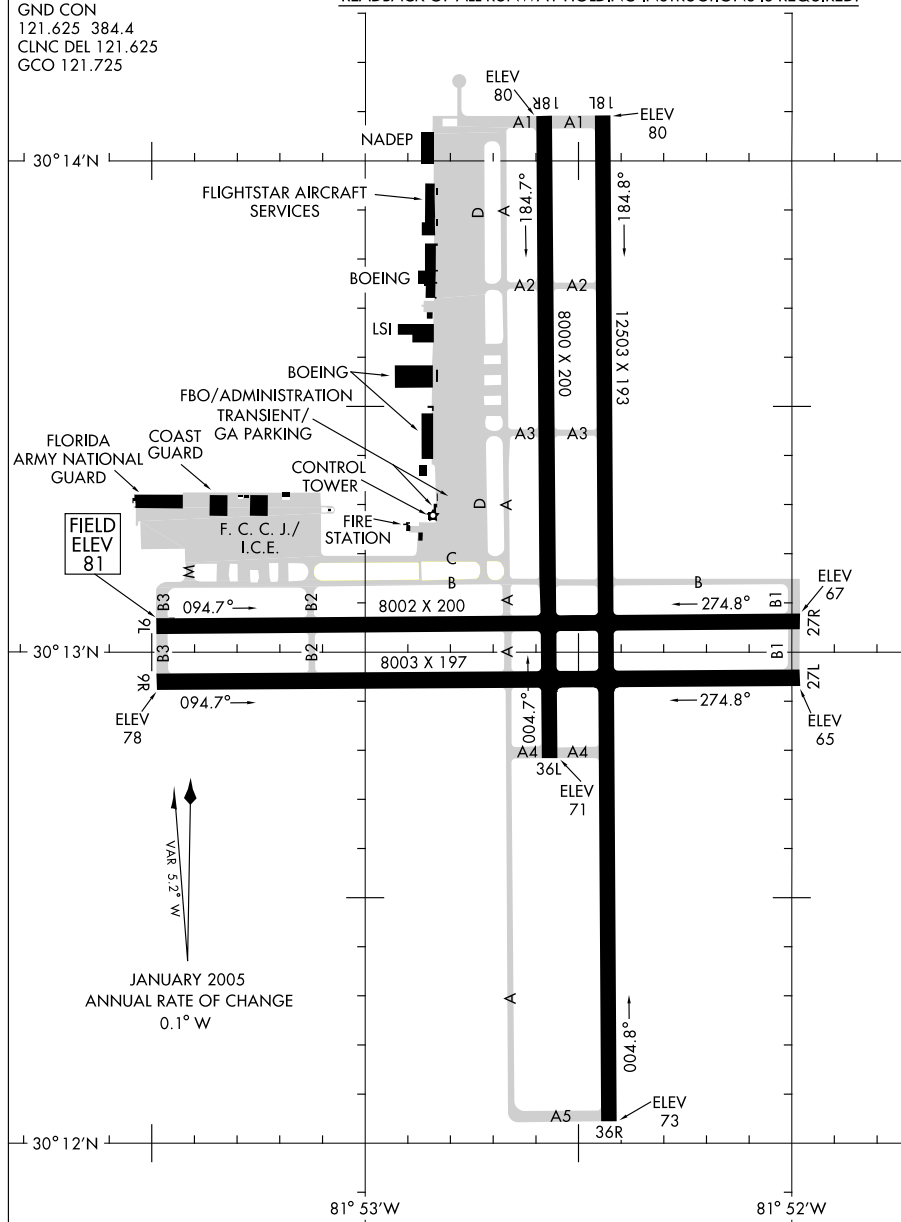
AL-998 (FAA)

JACKSONVILLE/ CECIL FIELD (VQQ)

JACKSONVILLE, FLORIDA

ATIS 125.275  
 CECIL TOWER ★  
 126.1 387.025  
 GND CON  
 121.625 384.4  
 CLNC DEL 121.625  
 GCO 121.725

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.  
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



## AIRPORT DIAGRAM

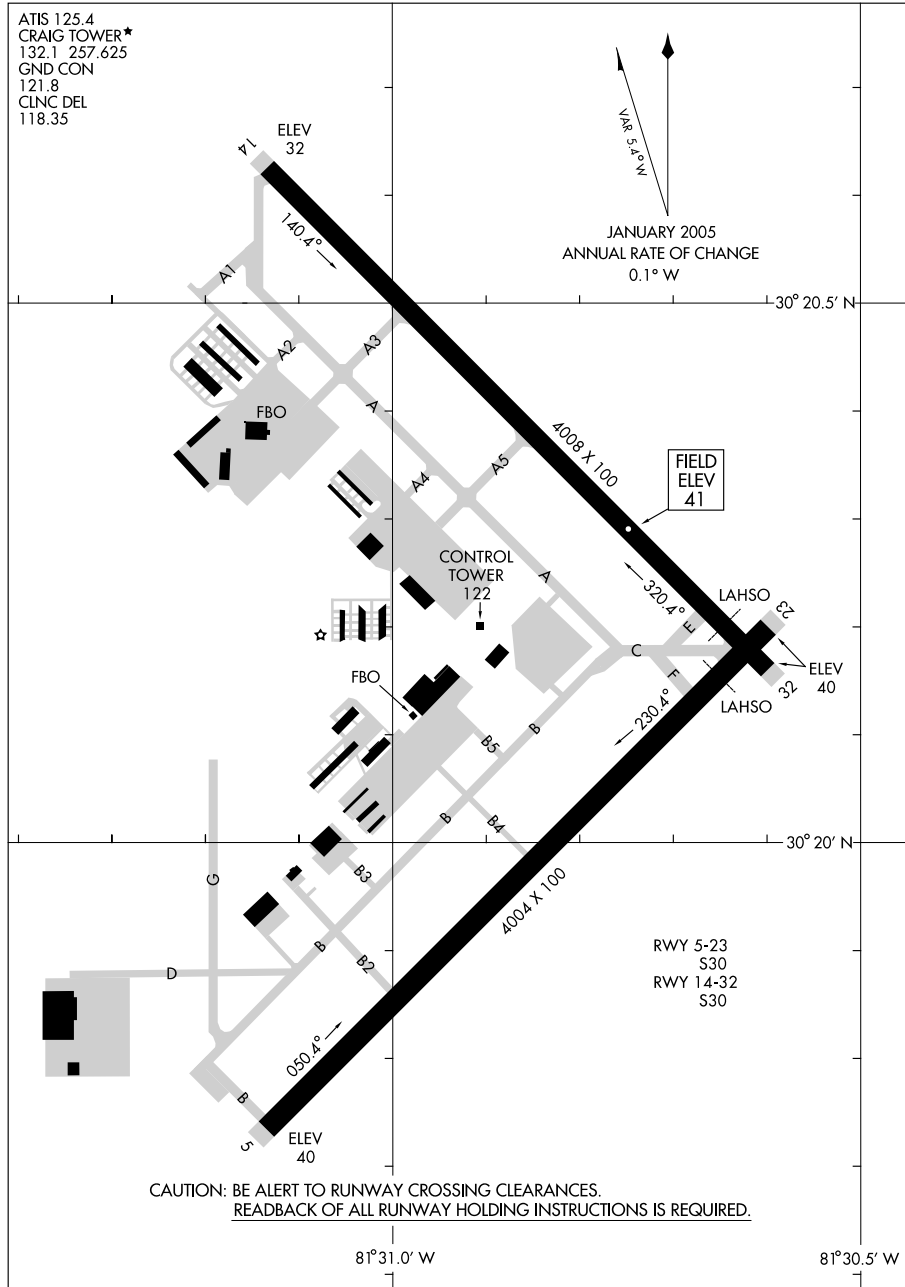
08157

JACKSONVILLE, FLORIDA  
 JACKSONVILLE/ CECIL FIELD (VQQ)

07354

## AIRPORT DIAGRAM

AL-208 (FAA)

JACKSONVILLE/CRAIG MUNI. (CRG)  
JACKSONVILLE, FLORIDA

## AIRPORT DIAGRAM

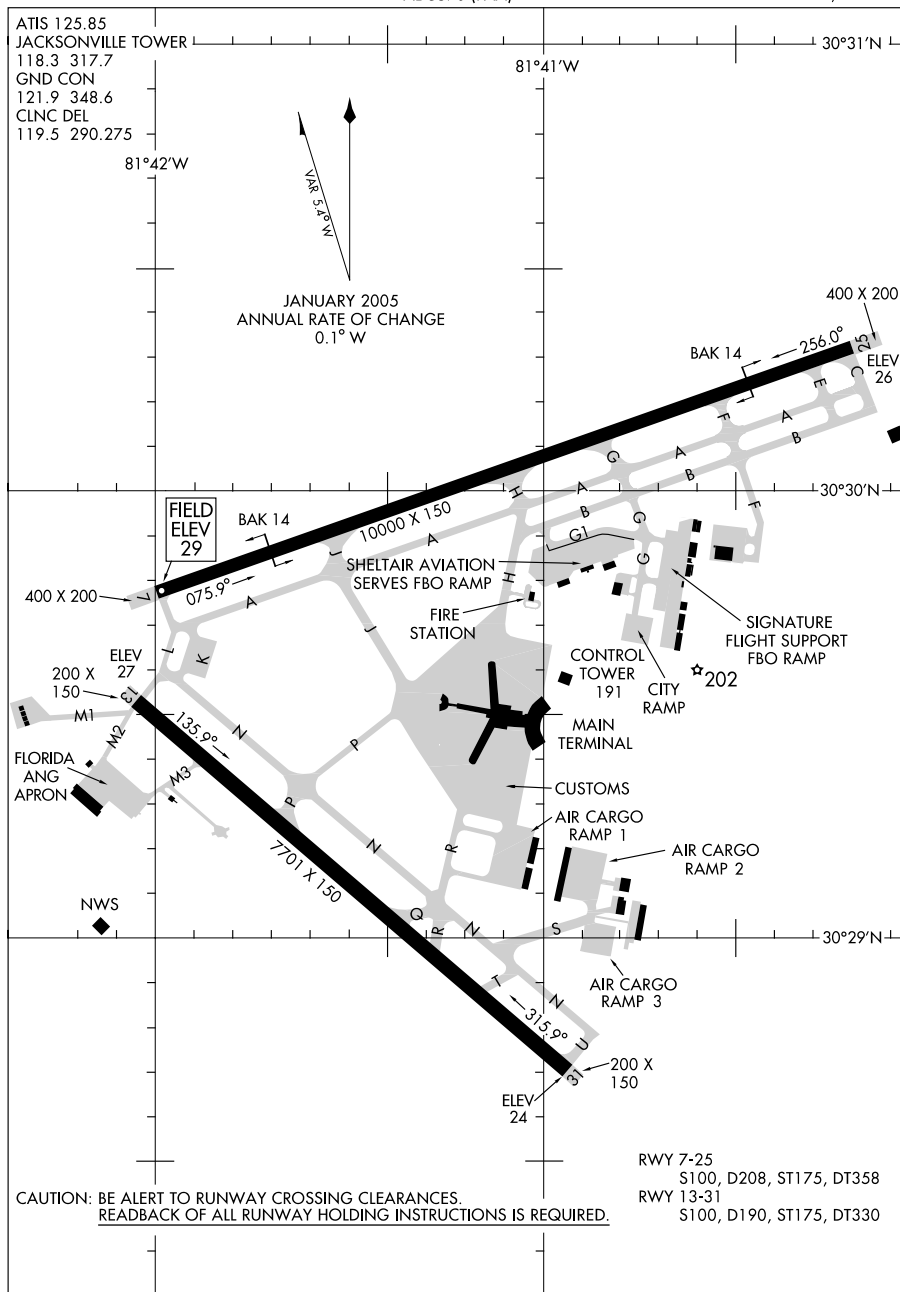
07354

JACKSONVILLE, FLORIDA  
JACKSONVILLE/CRAIG MUNI. (CRG)

08269

## AIRPORT DIAGRAM

AL-5570 (FAA)

JACKSONVILLE INTL (JAX)  
JACKSONVILLE, FLORIDA

## AIRPORT DIAGRAM

08269

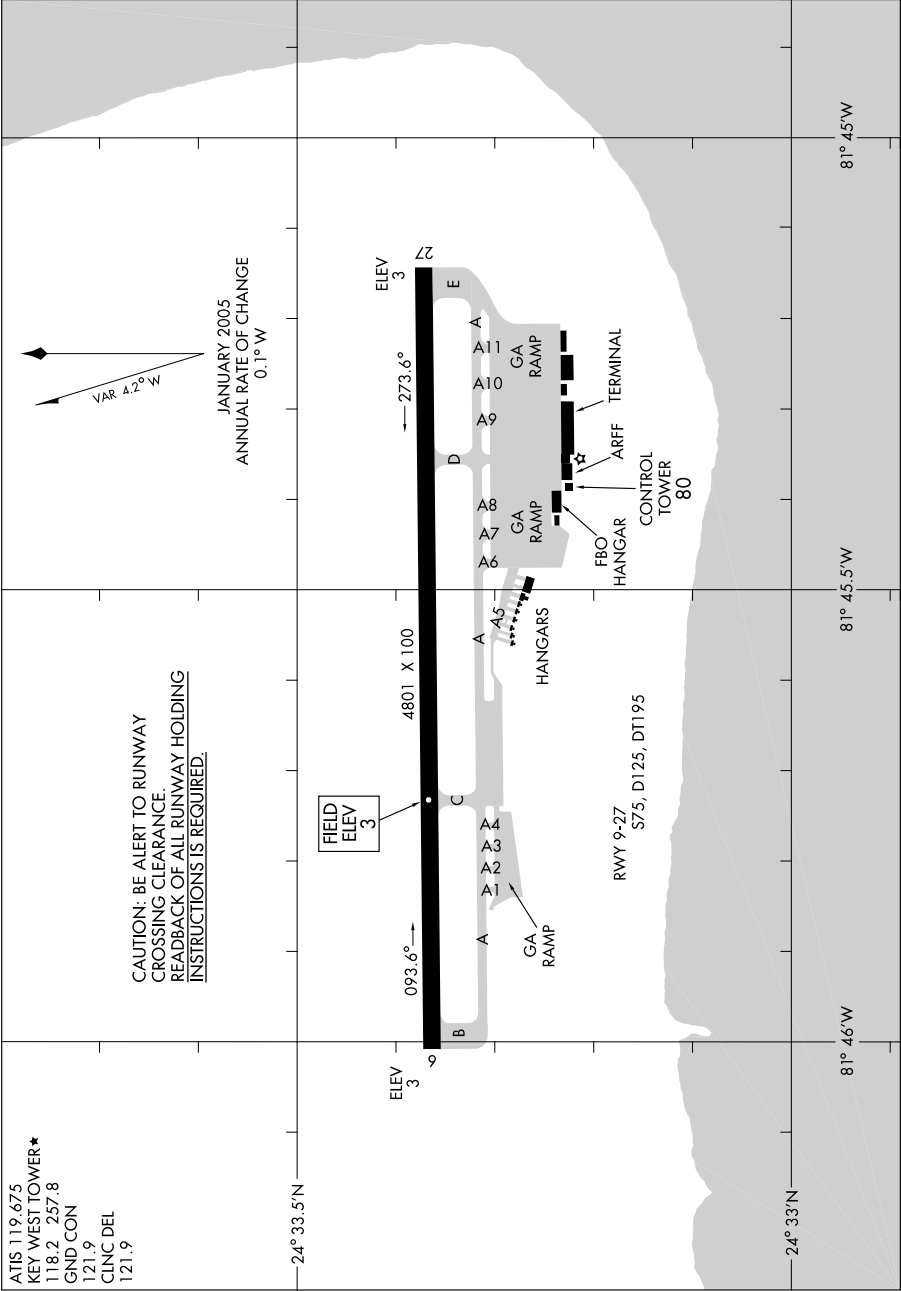
JACKSONVILLE, FLORIDA  
JACKSONVILLE INTL (JAX)

06215

AIRPORT DIAGRAM

AL-606 (FAA)

KEY WEST INTL (EYW)  
KEY WEST, FLORIDA



AIRPORT DIAGRAM

KEY WEST, FLORIDA  
KEY WEST INTL (EYW)

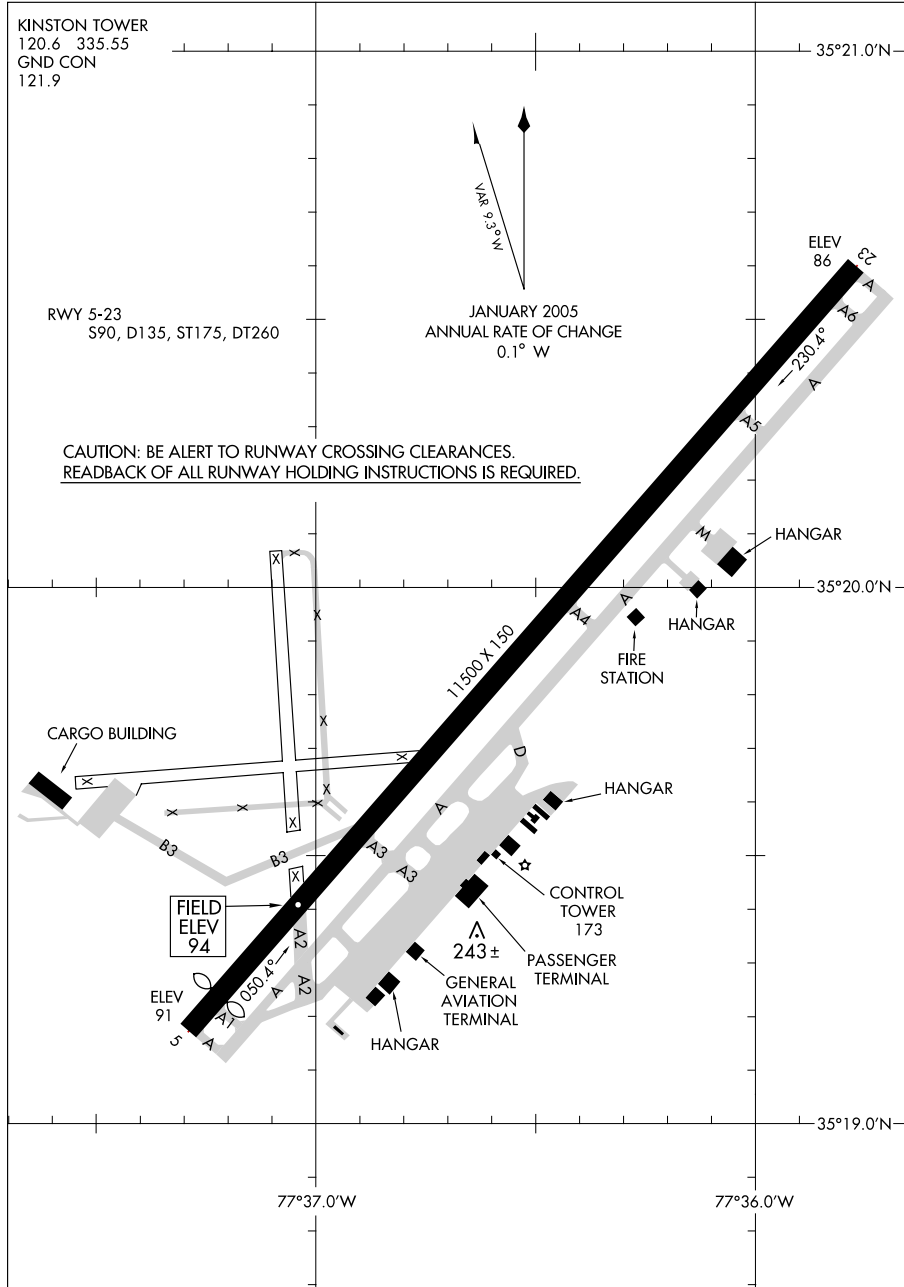
06215



07298

# AIRPORT DIAGRAM

KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)  
AL-5038 (FAA)  
KINSTON, NORTH CAROLINA



# AIRPORT DIAGRAM

07298

KINSTON, NORTH CAROLINA  
KINSTON RGNL JETPORT AT STALLINGS FIELD (ISO)

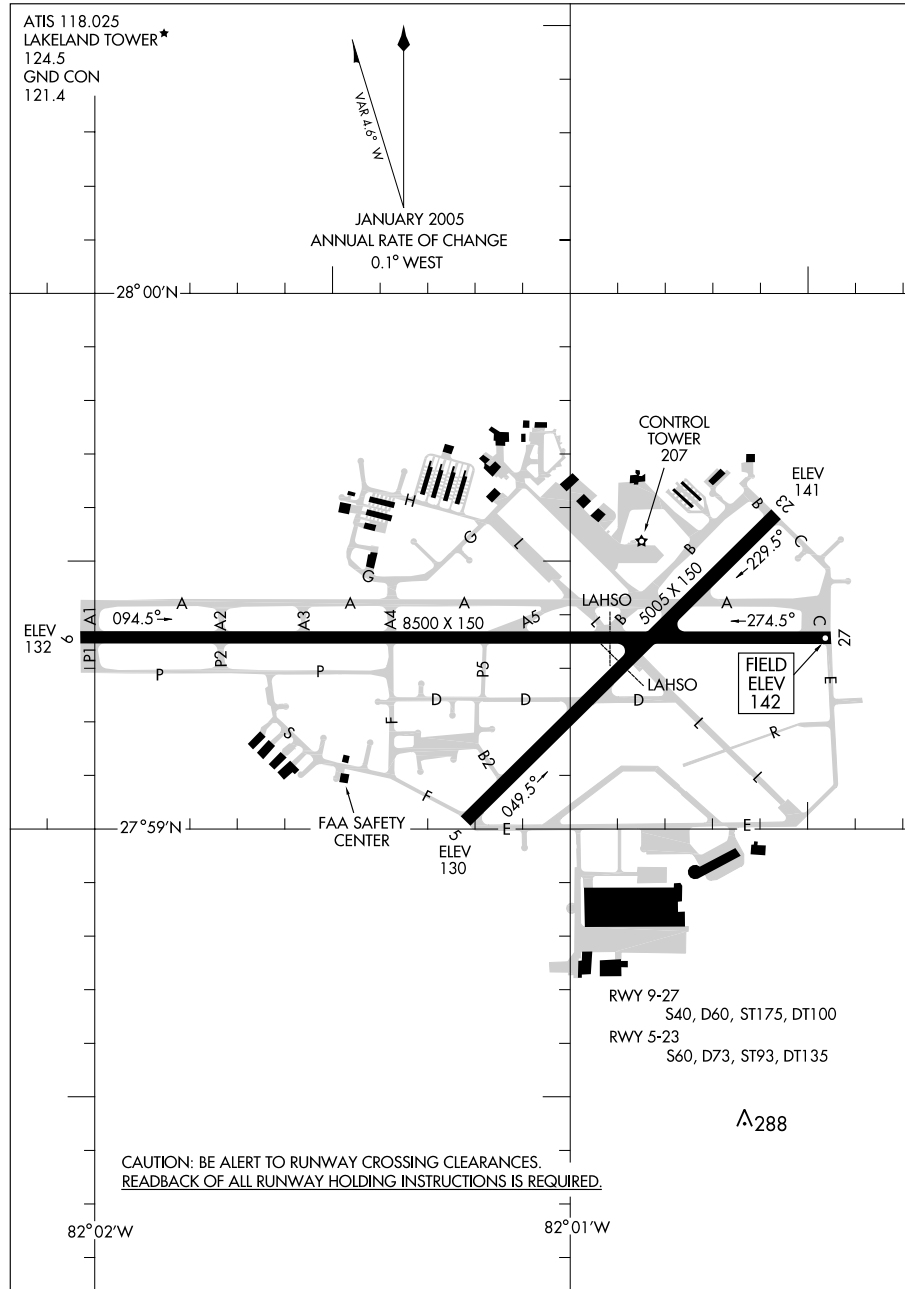




07354

## AIRPORT DIAGRAM

AL-939 (FAA)

LAKELAND LINDER RGNL (LAL)  
LAKELAND, FLORIDA

## AIRPORT DIAGRAM

07354

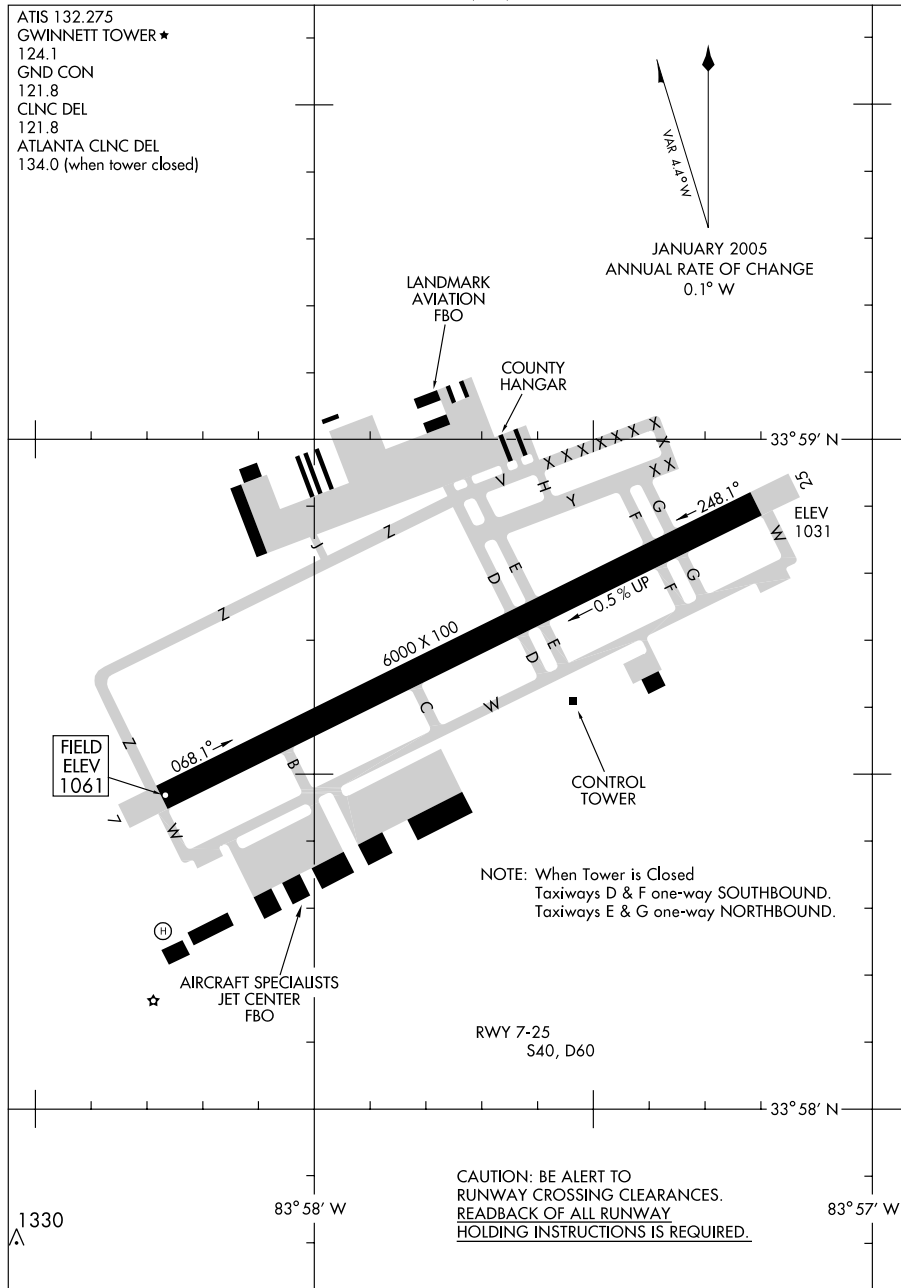
LAKELAND, FLORIDA  
LAKELAND LINDER RGNL (LAL)

07130

## AIRPORT DIAGRAM

LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)  
AL-5385 (FAA)

LAWRENCEVILLE, GEORGIA



## AIRPORT DIAGRAM

07130

LAWRENCEVILLE, GEORGIA  
LAWRENCEVILLE/GWINNETT COUNTY-BRISCOE FIELD (LZU)

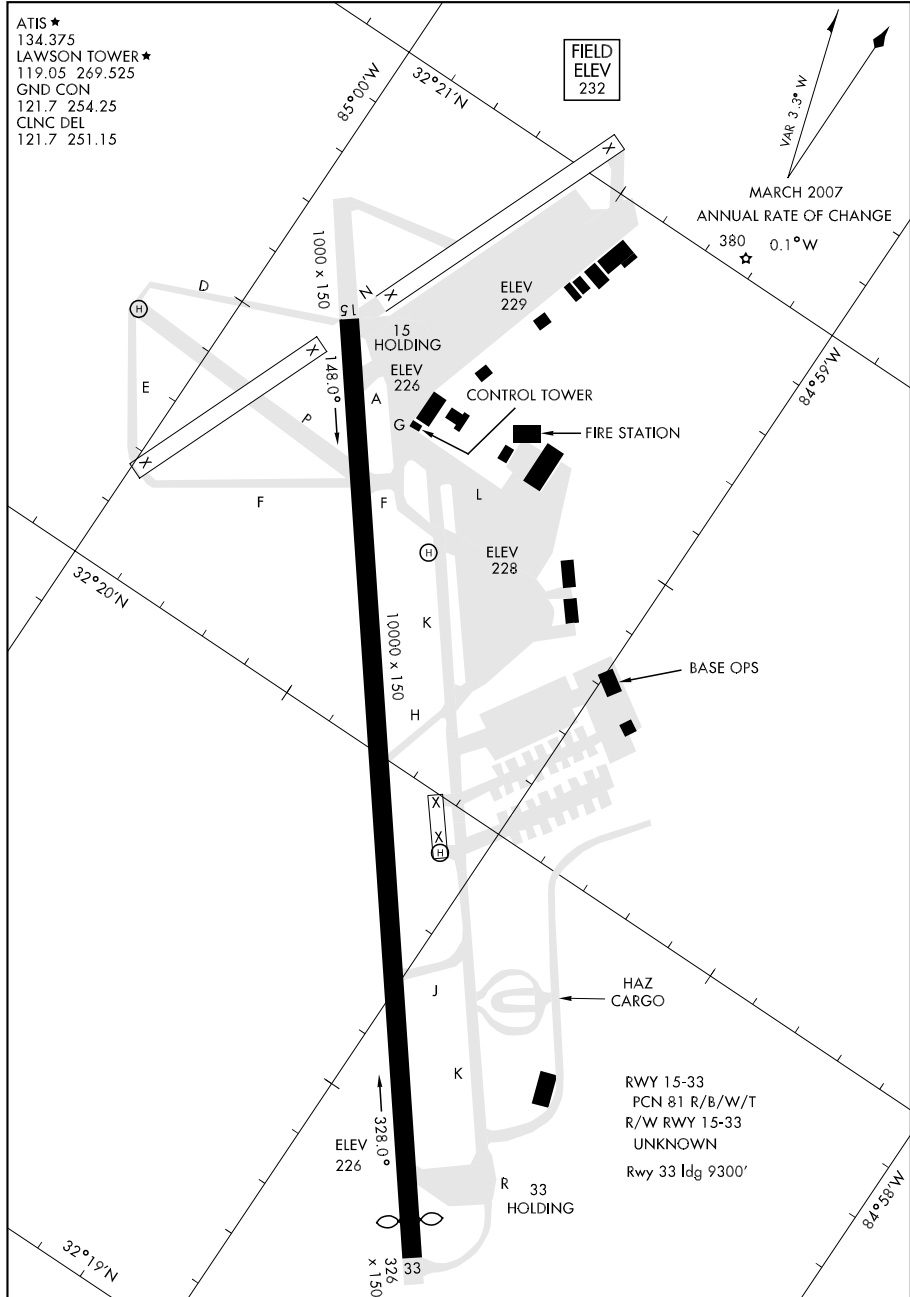
07074

## AIRPORT DIAGRAM

LAWSON AAF (KLSF)

AFD-146 [USA]

FT. BENNING (COLUMBUS), GEORGIA



## AIRPORT DIAGRAM

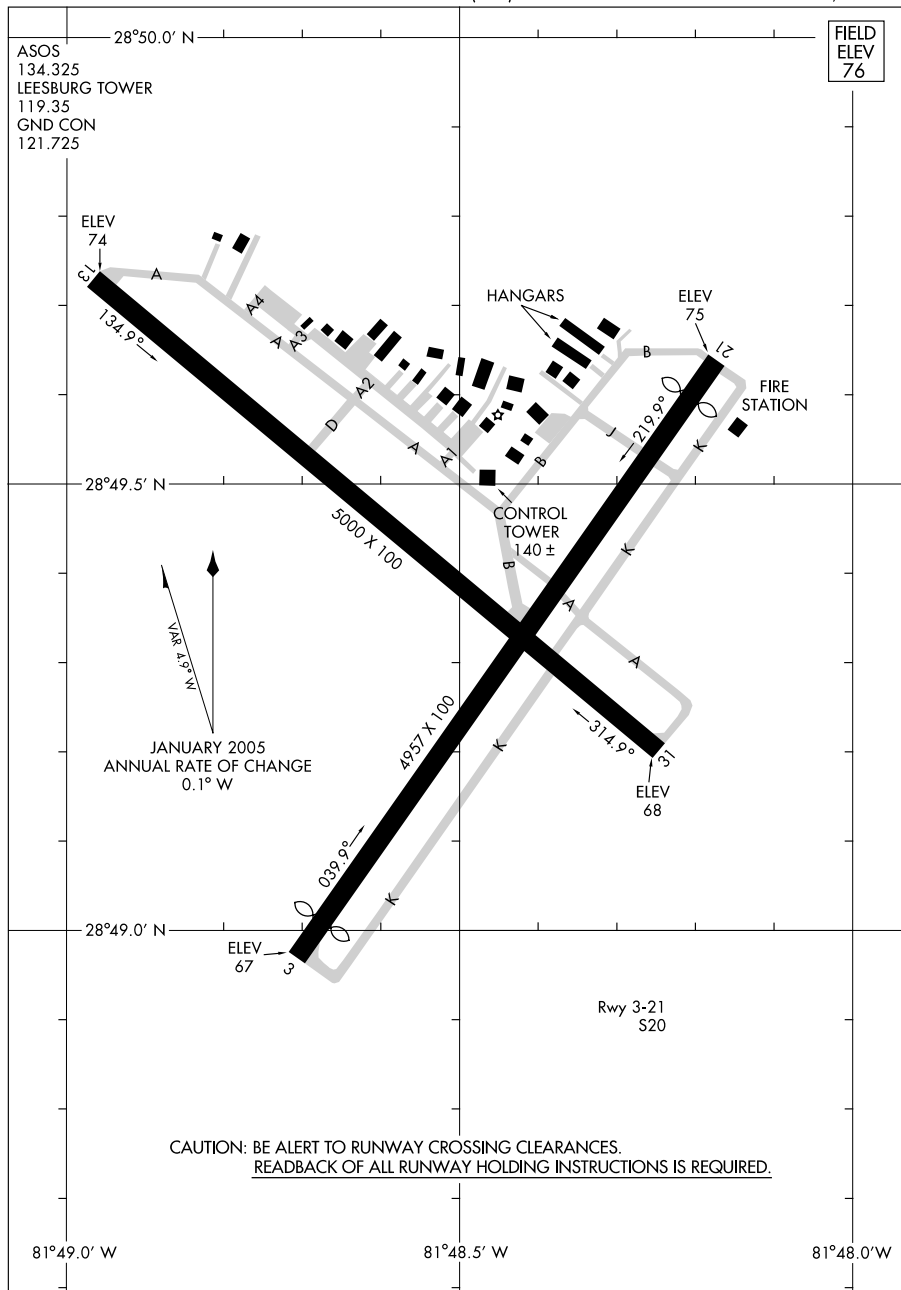
FT. BENNING (COLUMBUS), GEORGIA

LAWSON AAF (KLSF)

09295

## AIRPORT DIAGRAM

AL-6676 (FAA)

LEESBURG INTL (LEE)  
LEESBURG, FLORIDA

## AIRPORT DIAGRAM

09295

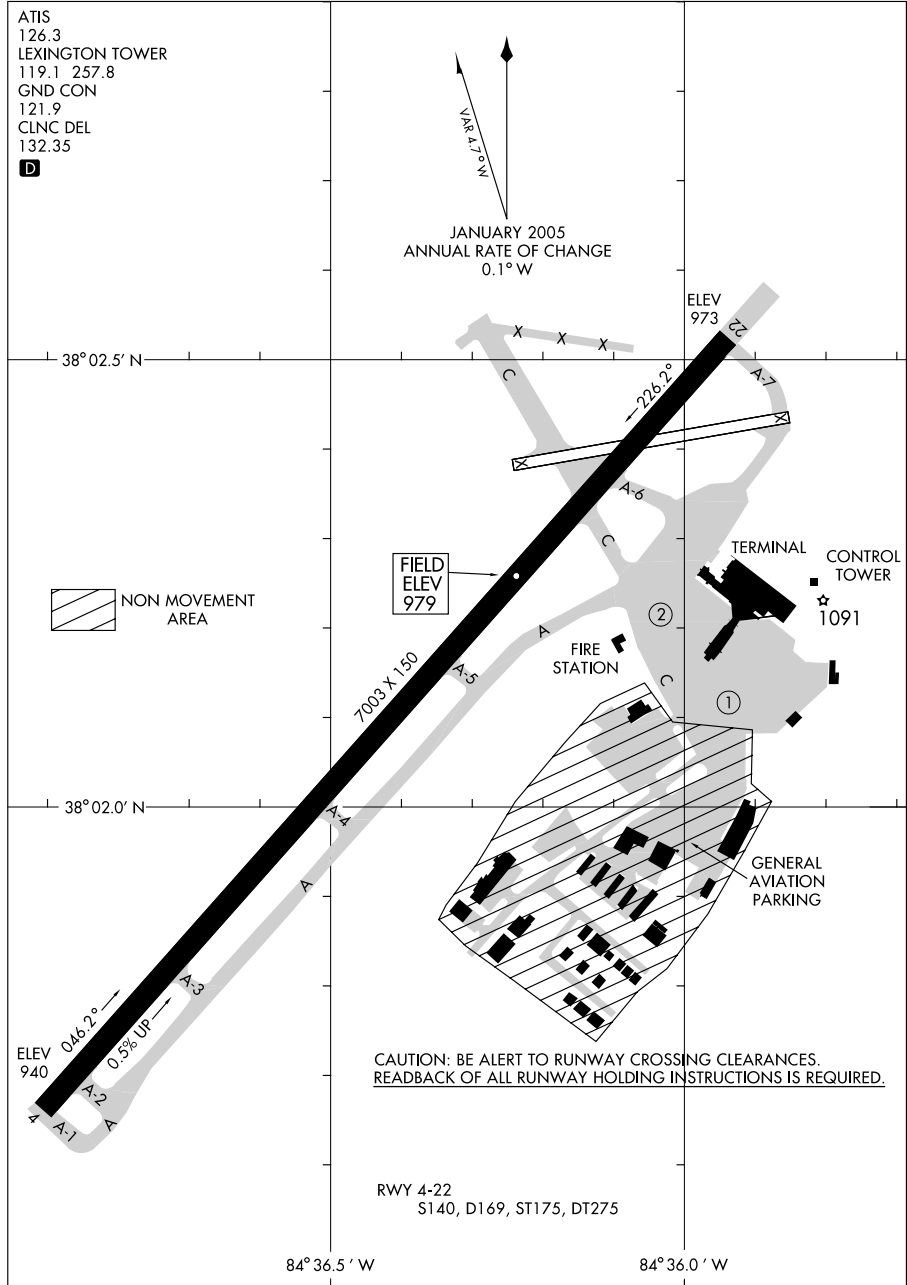
LEESBURG, FLORIDA  
LEESBURG INTL (LEE)

09183

# AIRPORT DIAGRAM

LEXINGTON /BLUE GRASS (LEX)  
LEXINGTON, KENTUCKY

AL-697 (FAA)



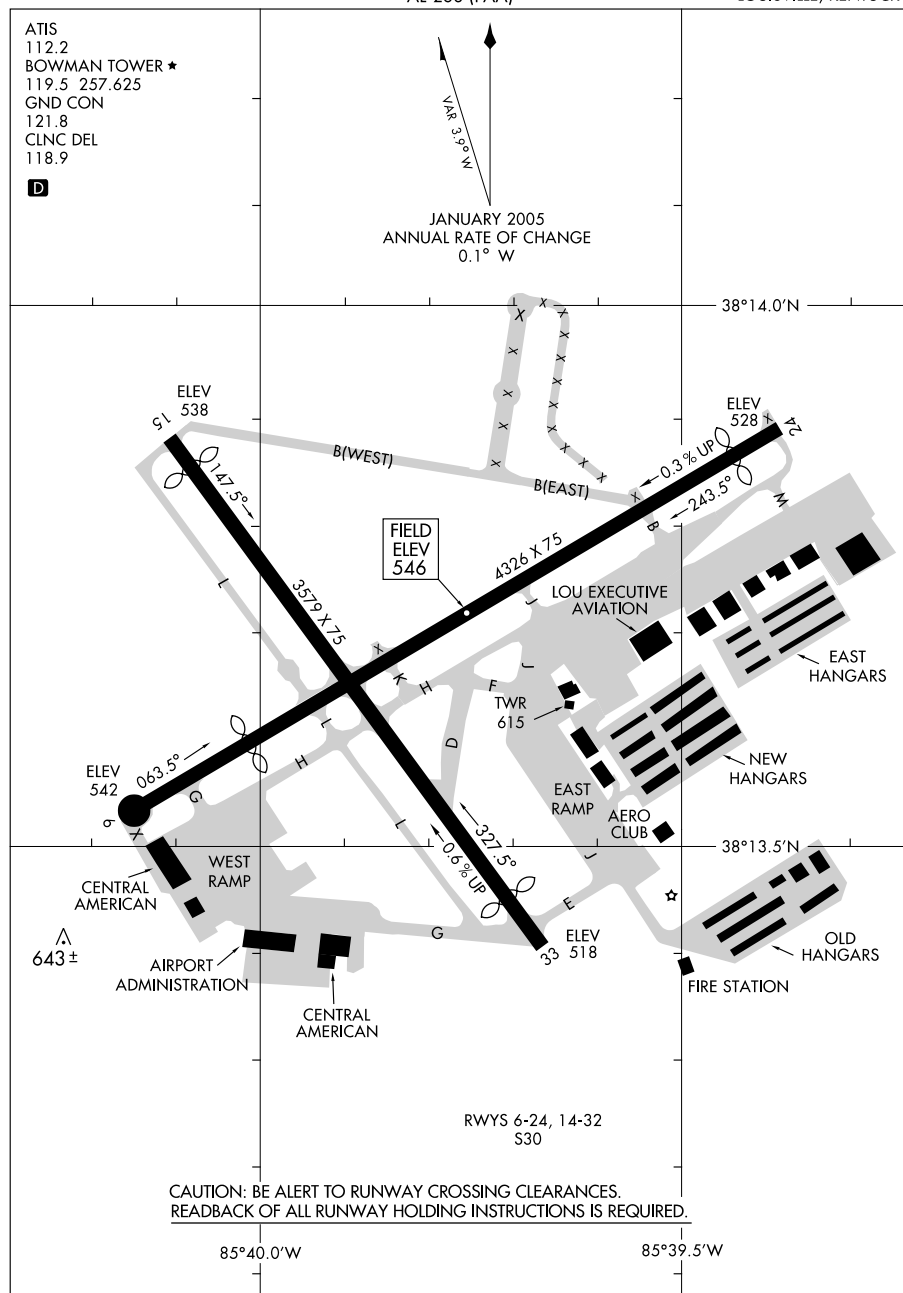
# AIRPORT DIAGRAM

09183

LEXINGTON, KENTUCKY  
LEXINGTON /BLUE GRASS (LEX)

09239

## AIRPORT DIAGRAM

LOUISVILLE/BOWMAN FIELD (LOU)  
LOUISVILLE, KENTUCKY

## AIRPORT DIAGRAM

09239

LOUISVILLE, KENTUCKY  
LOUISVILLE/BOWMAN FIELD (LOU)

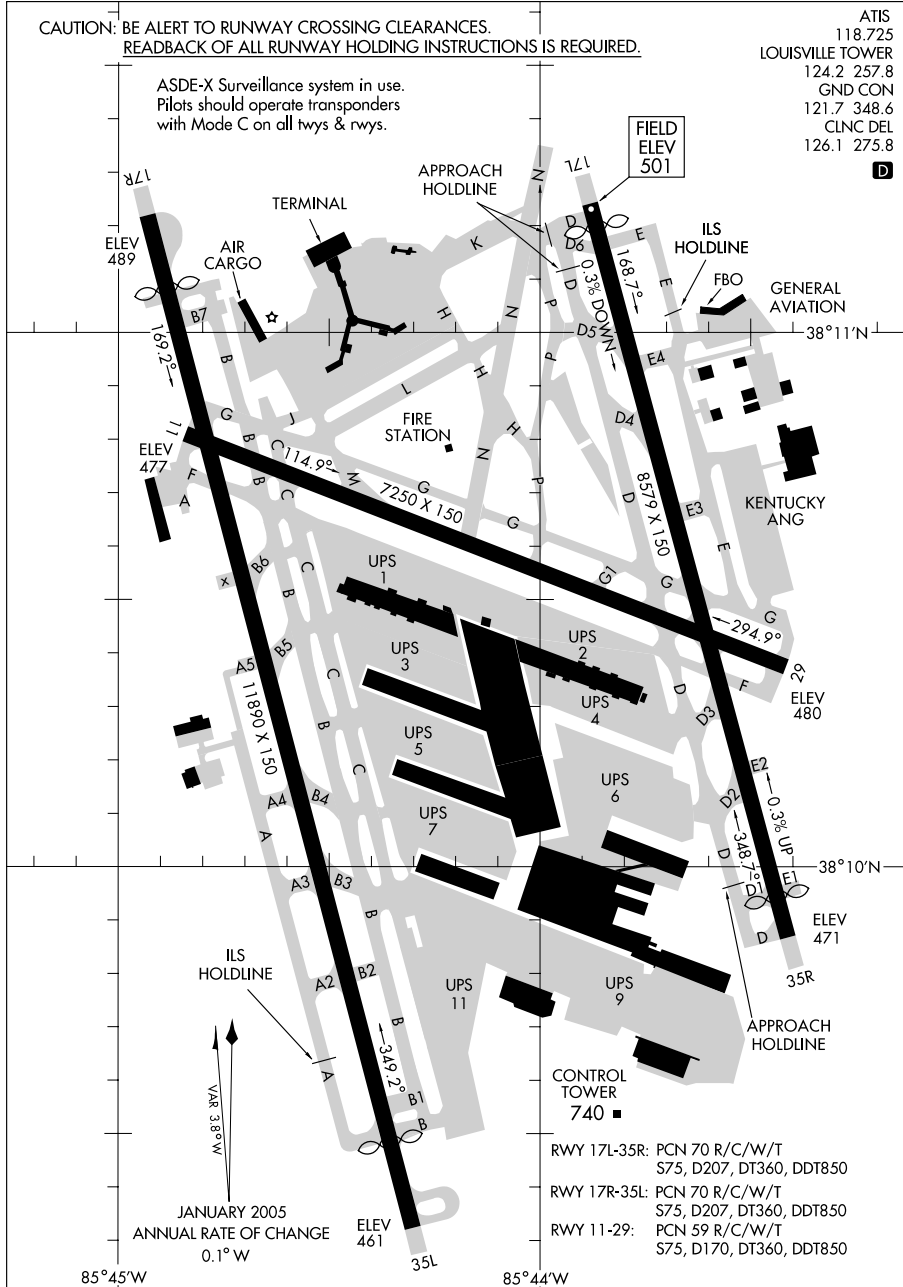
09127

## AIRPORT DIAGRAM

LOUISVILLE INTL-STANDIFORD FIELD (SDF)

AL-239 (FAA)

LOUISVILLE, KENTUCKY



## AIRPORT DIAGRAM

LOUISVILLE, KENTUCKY  
LOUISVILLE INTL-STANDIFORD FIELD (SDF)

09127

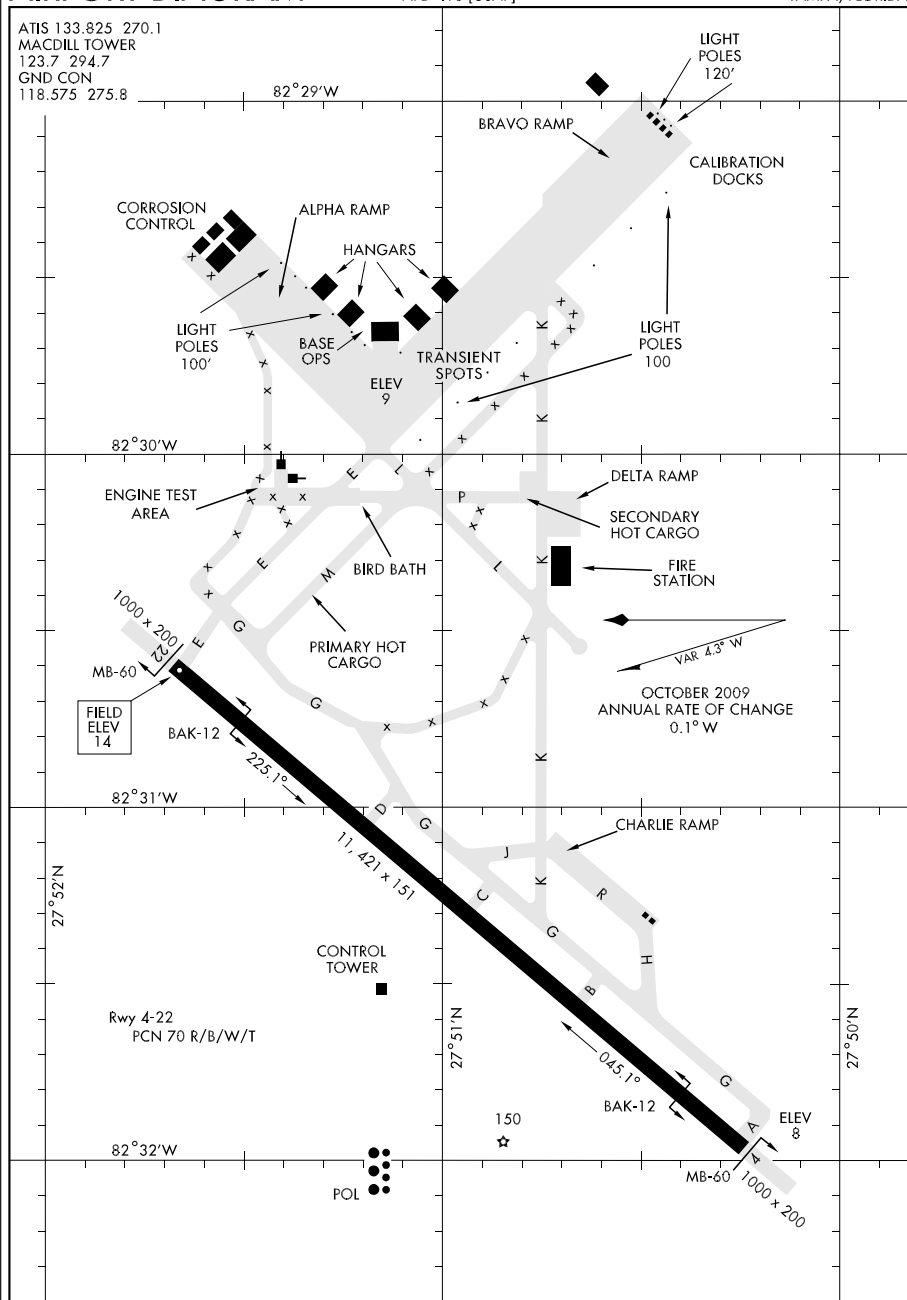
09295

## AIRPORT DIAGRAM

AFD-418 [USAF]

MACDILL AFB (KMCF)

TAMPA, FLORIDA



## AIRPORT DIAGRAM

TAMPA, FLORIDA  
MACDILL AFB (KMCF)



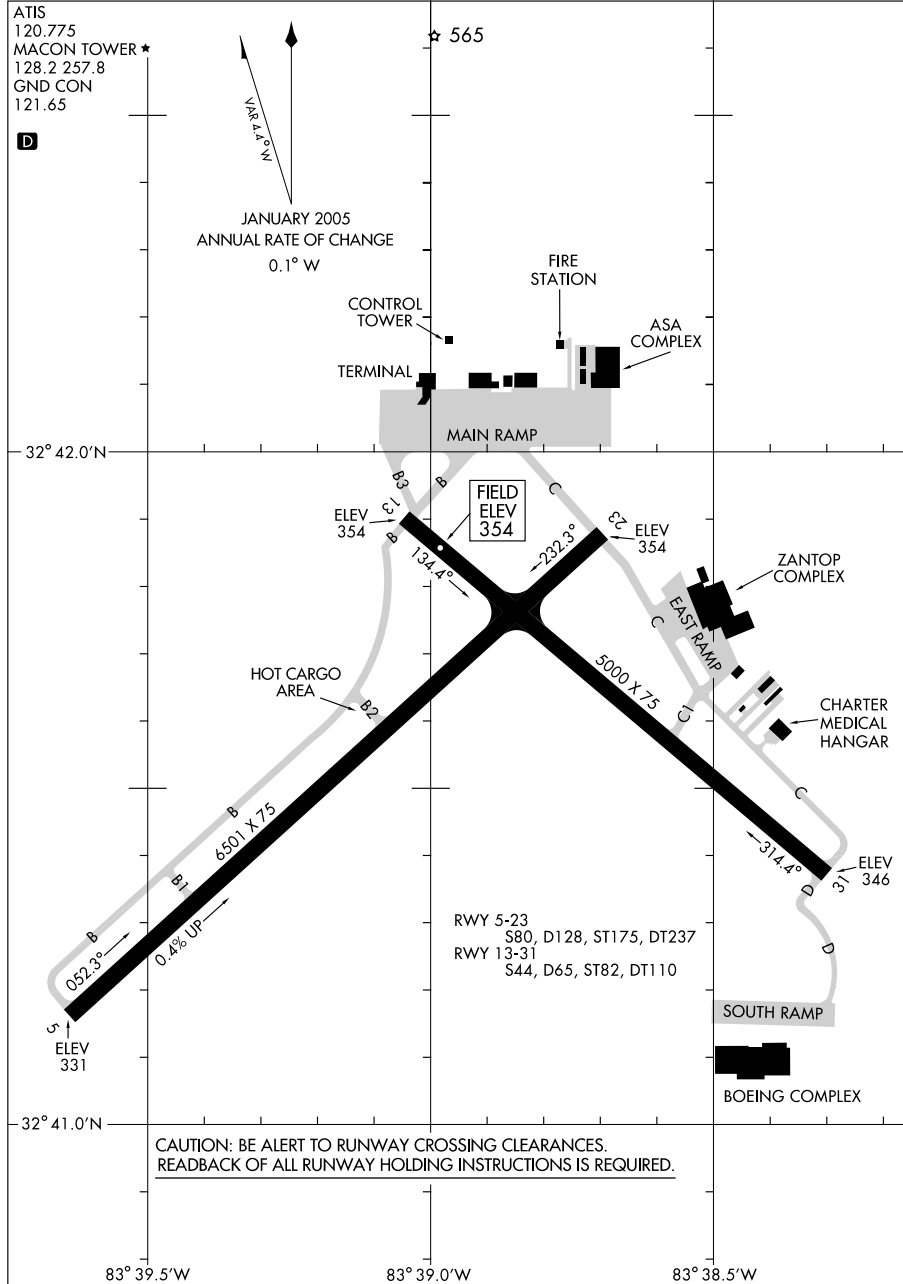
09183

## AIRPORT DIAGRAM

MACON/ MIDDLE GEORGIA RGNL (MCN)

AL-243 (FAA)

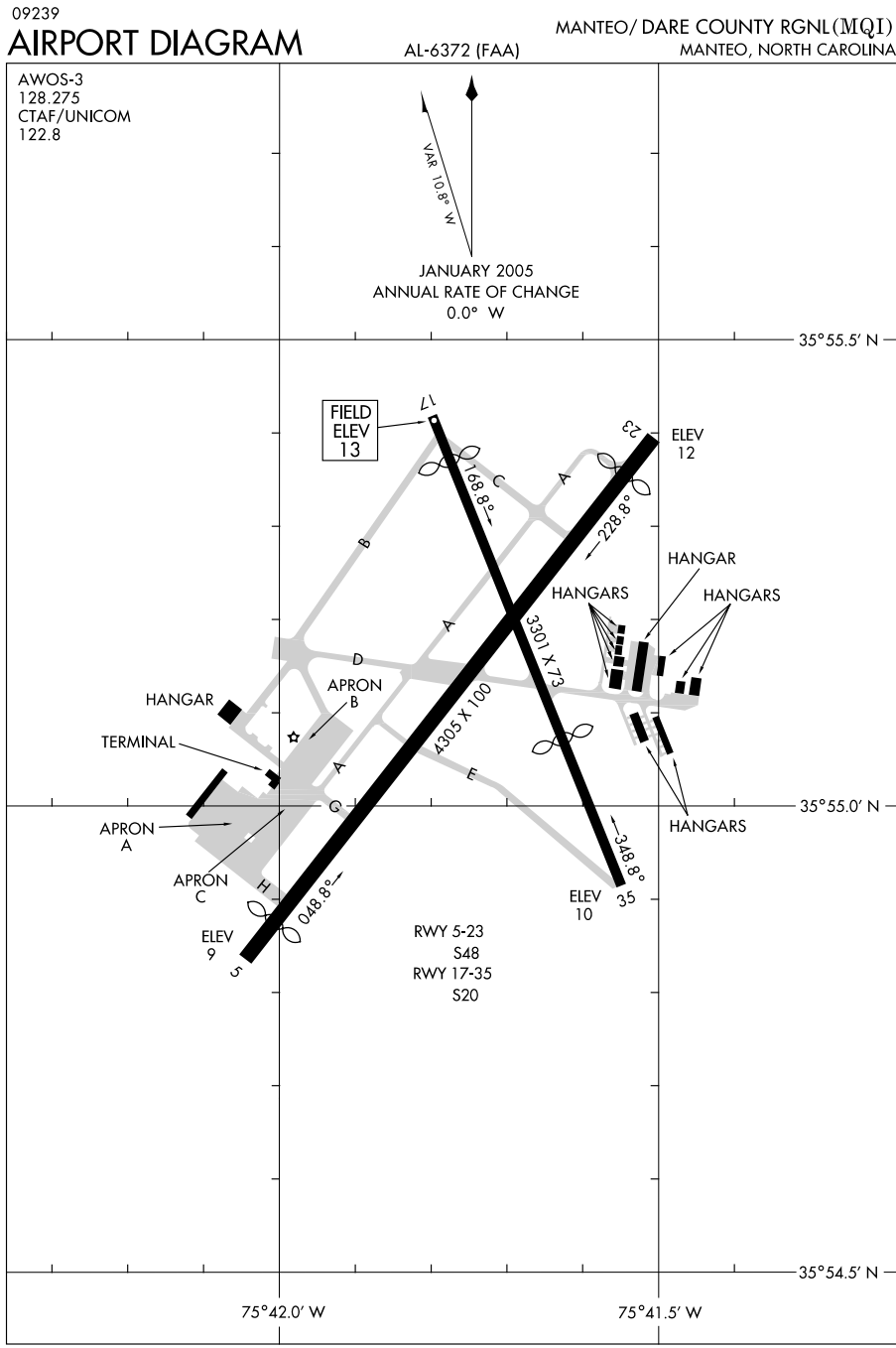
MACON, GEORGIA



## AIRPORT DIAGRAM

09183

MACON, GEORGIA  
MACON/ MIDDLE GEORGIA RGNL (MCN)



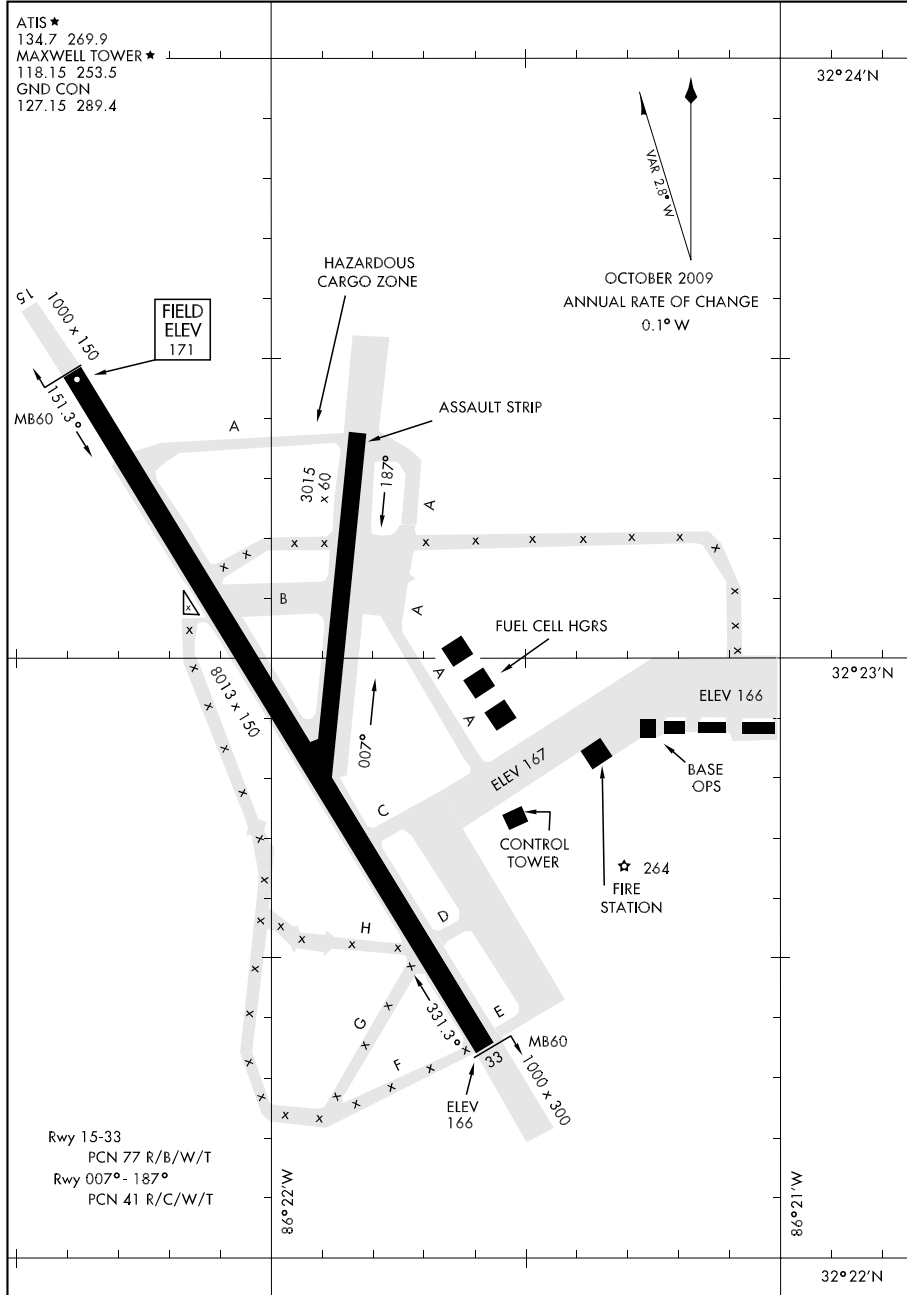
09295

## AIRPORT DIAGRAM

AFD-274 [USAF]

MAXWELL AFB (KMXF)

MONTGOMERY, ALABAMA



## AIRPORT DIAGRAM

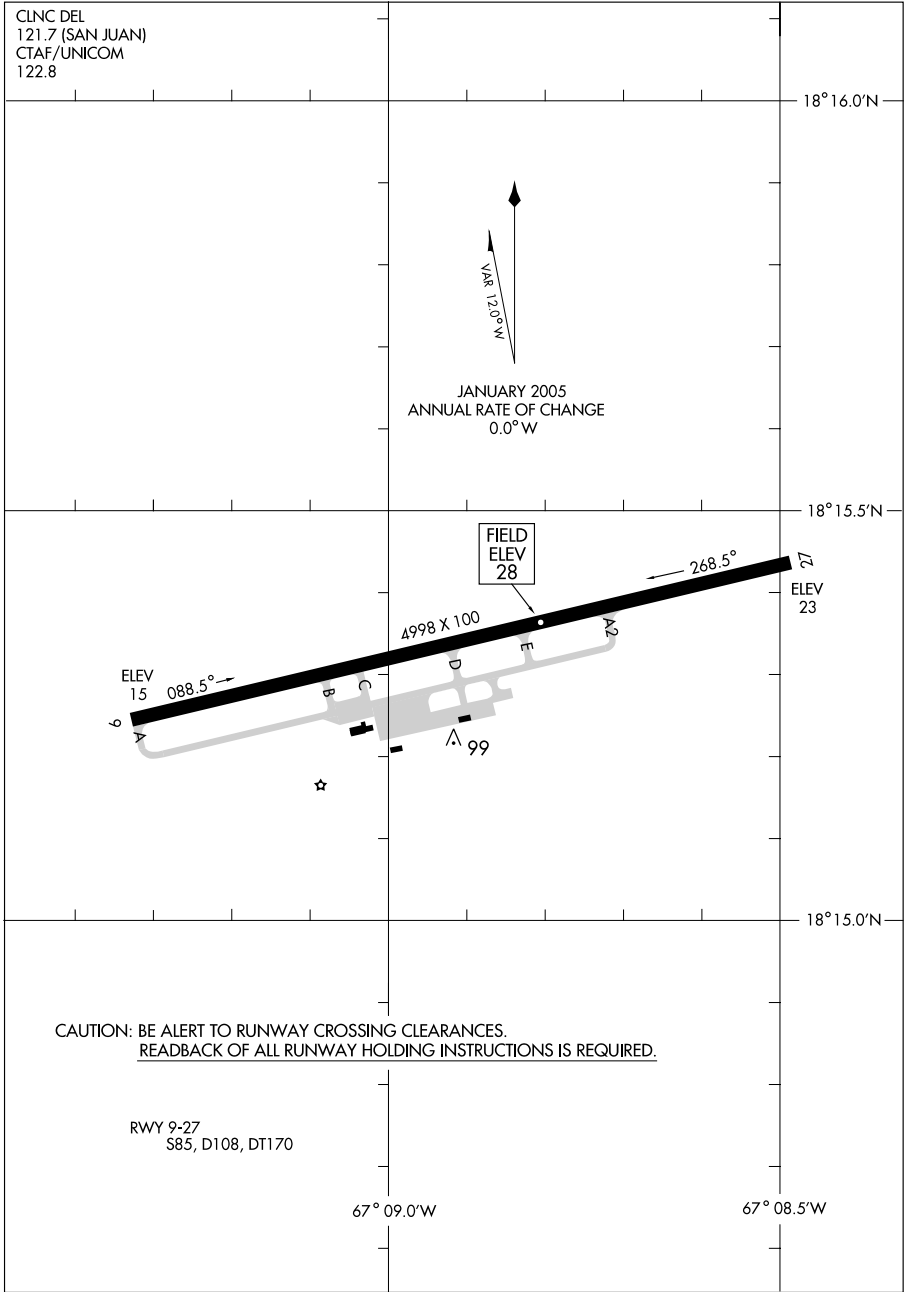
MONTGOMERY, ALABAMA

MAXWELL AFB (KMXF)

07074

AIRPORT DIAGRAM

MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)  
AL-5328 (FAA) MAYAGUEZ, PUERTO RICO



AIRPORT DIAGRAM

07074

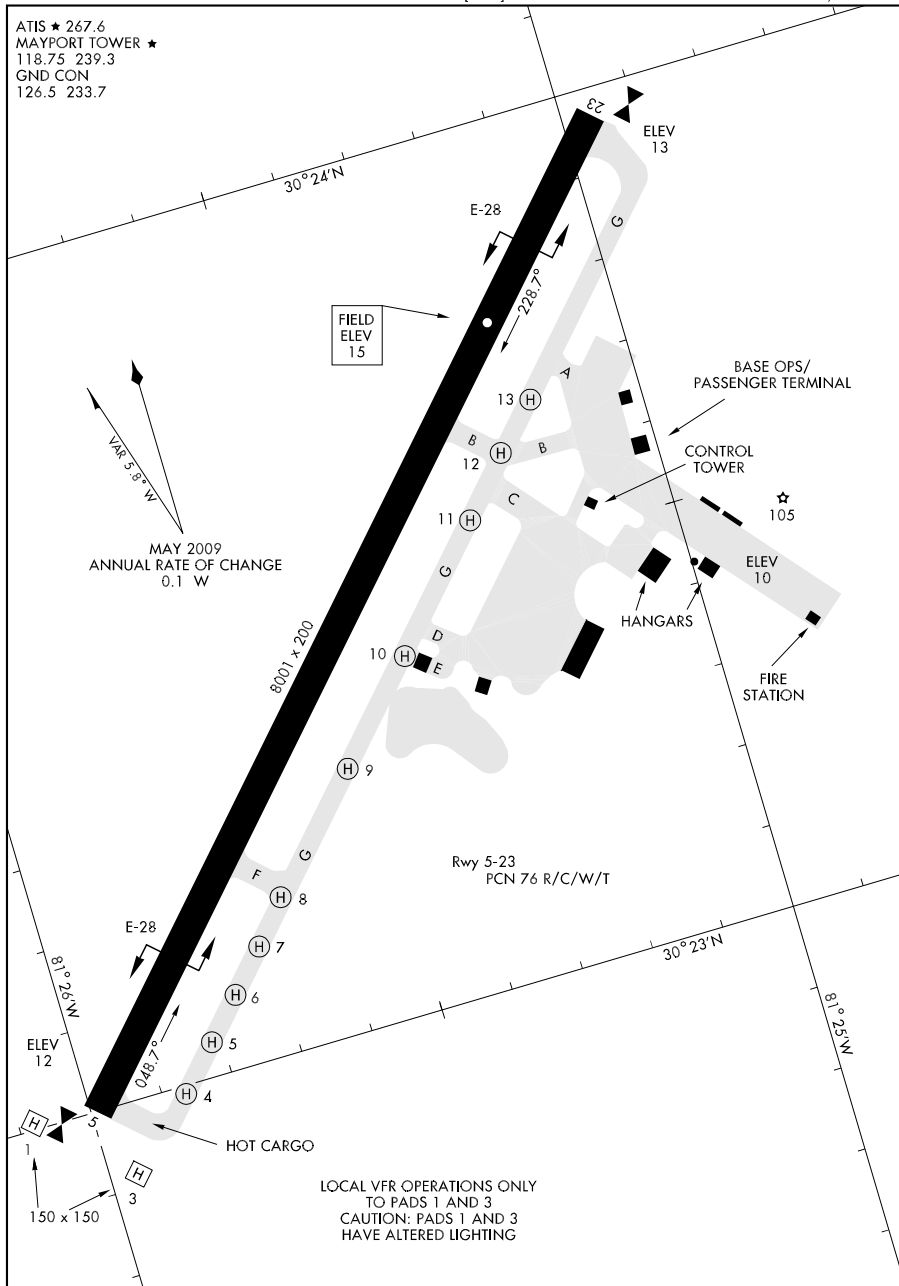
MAYAGUEZ, PUERTO RICO  
MAYAGUEZ/EUGENIO MARIA DE HOSTOS (MAZ)(TJMZ)

09127

## AIRPORT DIAGRAM

MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)  
AFD-722 [USN] MAYPORT, FLORIDA

ATIS ★ 267.6  
MAYPORT TOWER ★  
118.75 239.3  
GND CON  
126.5 233.7



## AIRPORT DIAGRAM

MAYPORT, FLORIDA  
MAYPORT NS (ADM DAVID L. MCDONALD FLD) (KNRB)

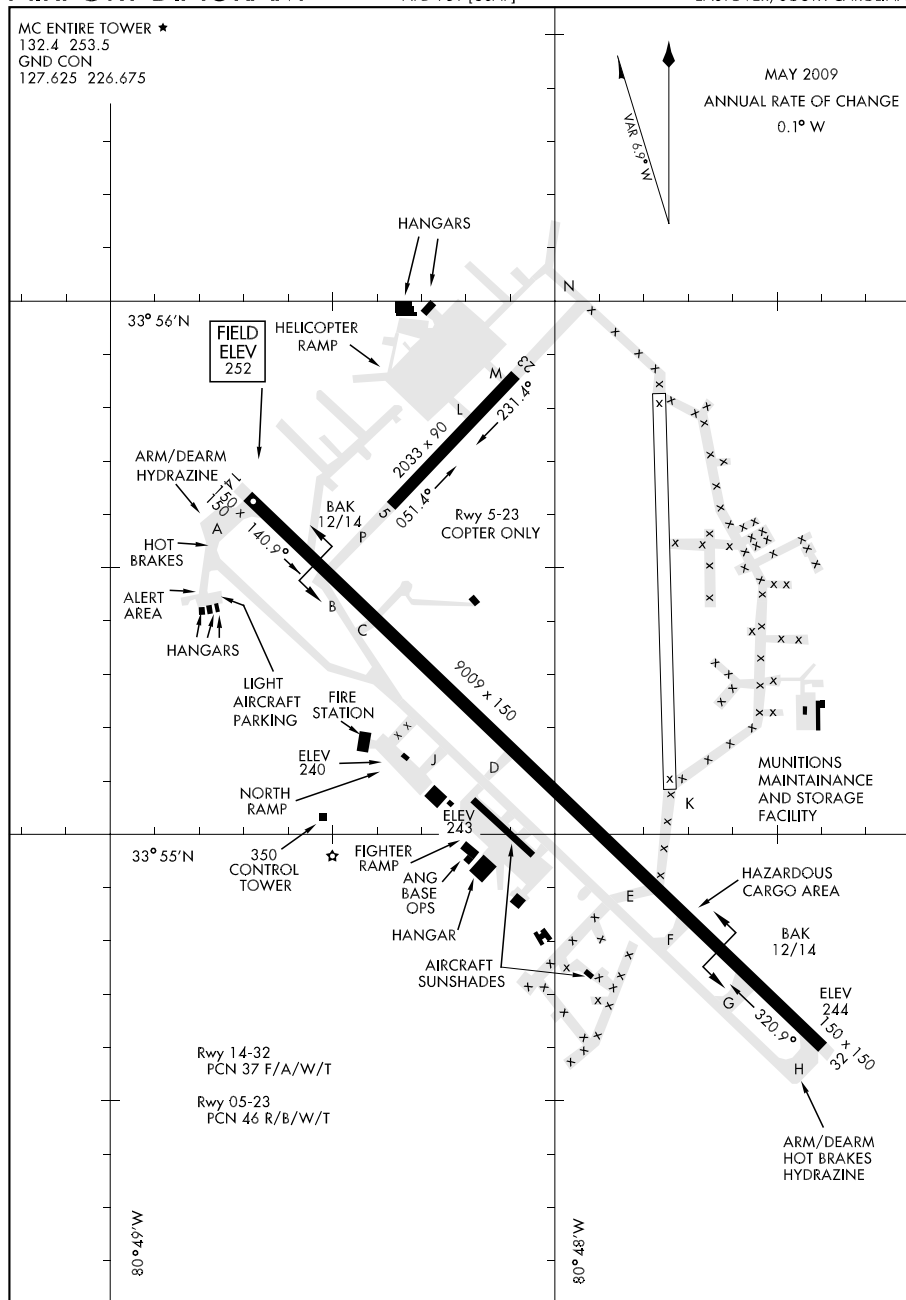
09127

## AIRPORT DIAGRAM

AFD-951 [USAF]

MC ENTIRE JNGB (KMMT)

EASTOVER, SOUTH CAROLINA



## AIRPORT DIAGRAM

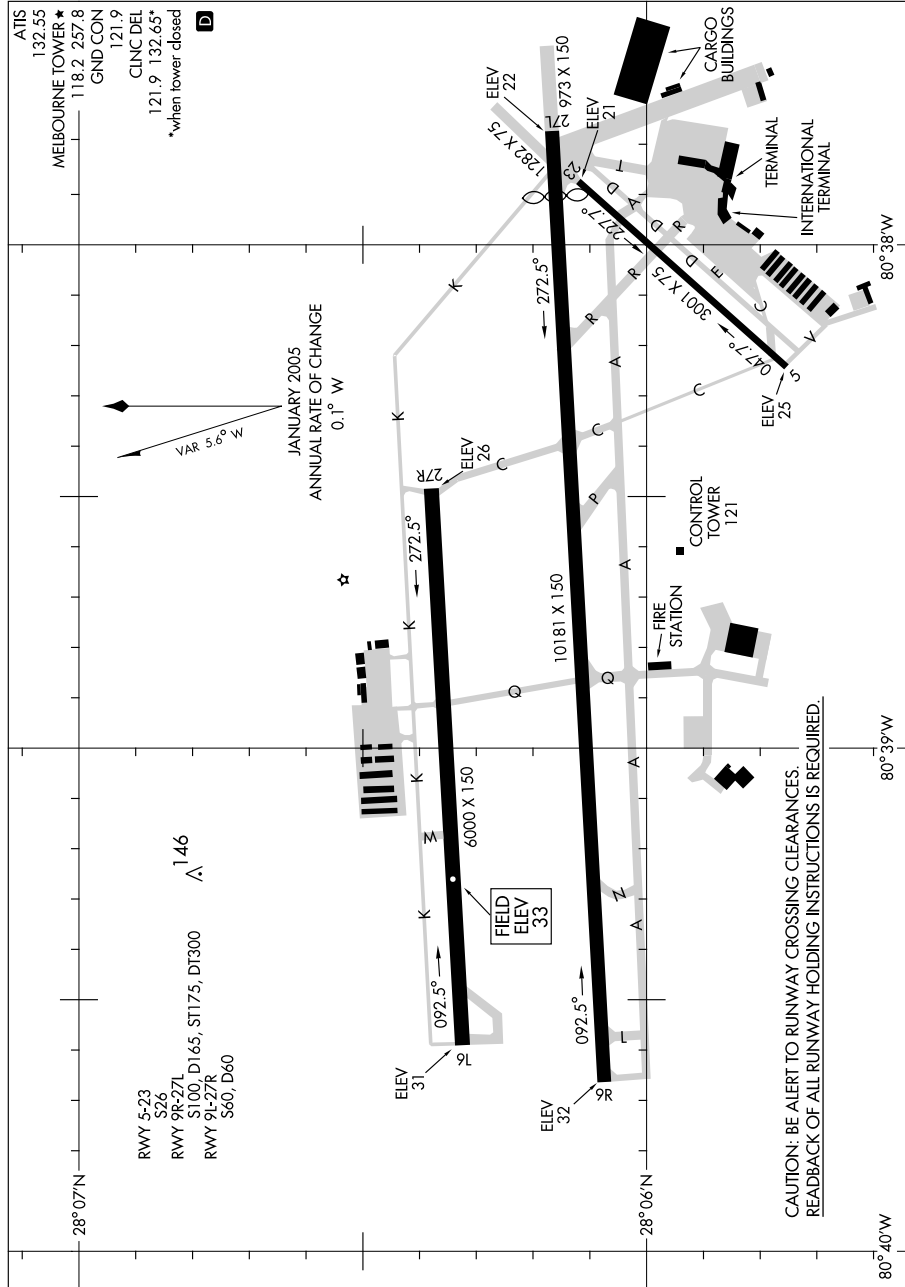
EASTOVER, SOUTH CAROLINA  
MC ENTIRE JNGB (KMMT)

09015

# AIRPORT DIAGRAM

AL-252 (FAA)

MELBOURNE INTL (MLB)  
MELBOURNE, FLORIDA



## AIRPORT DIAGRAM

MELBOURNE, FLORIDA  
MELBOURNE INTL (MLB)

09015

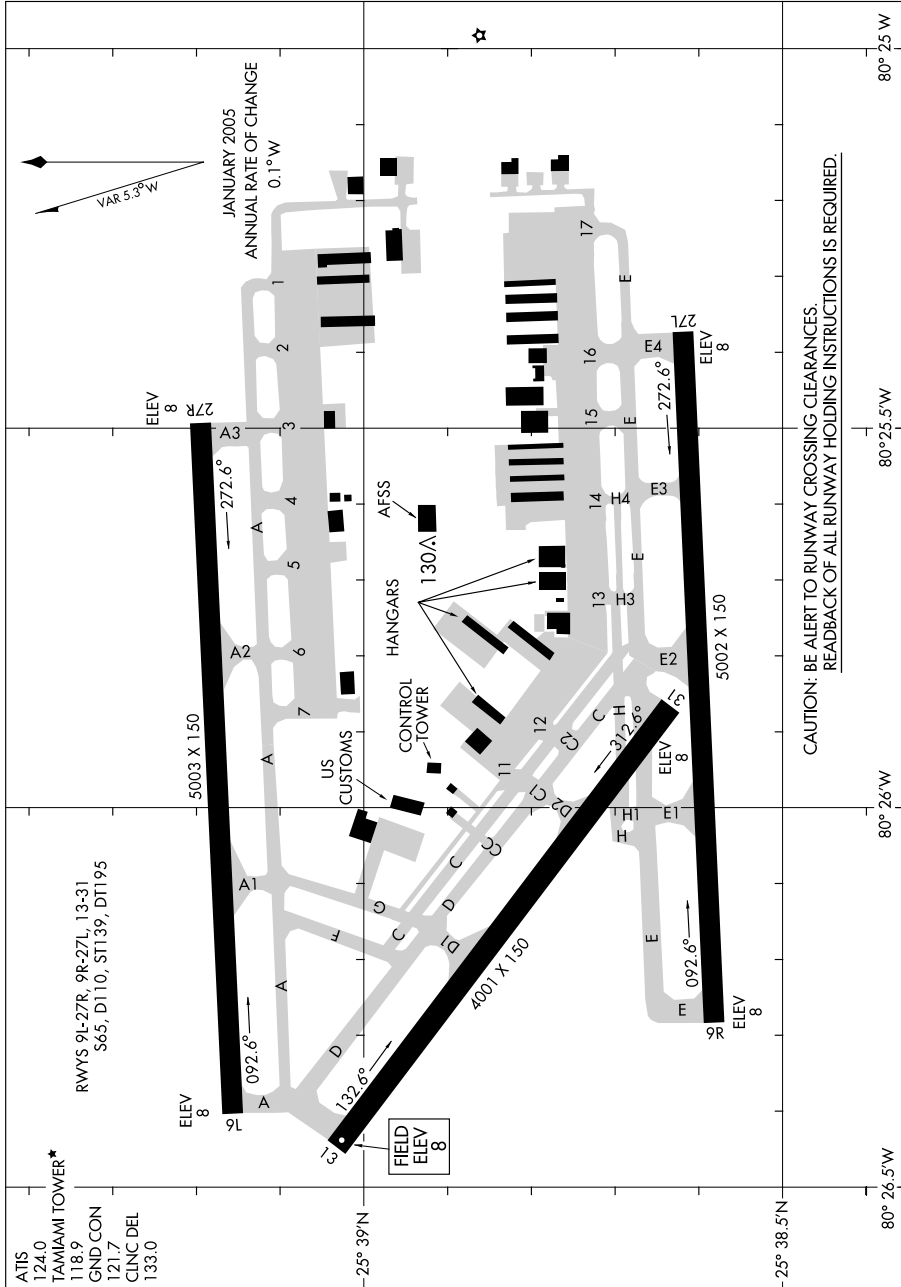
SE, 22 OCT 2009 to 17 DEC 2009





09183

## AIRPORT DIAGRAM

 MIAMI/KENDALL-TAMiami EXECUTIVE (TMB)  
 AL-5349 (FAA) MIAMI, FLORIDA


## AIRPORT DIAGRAM

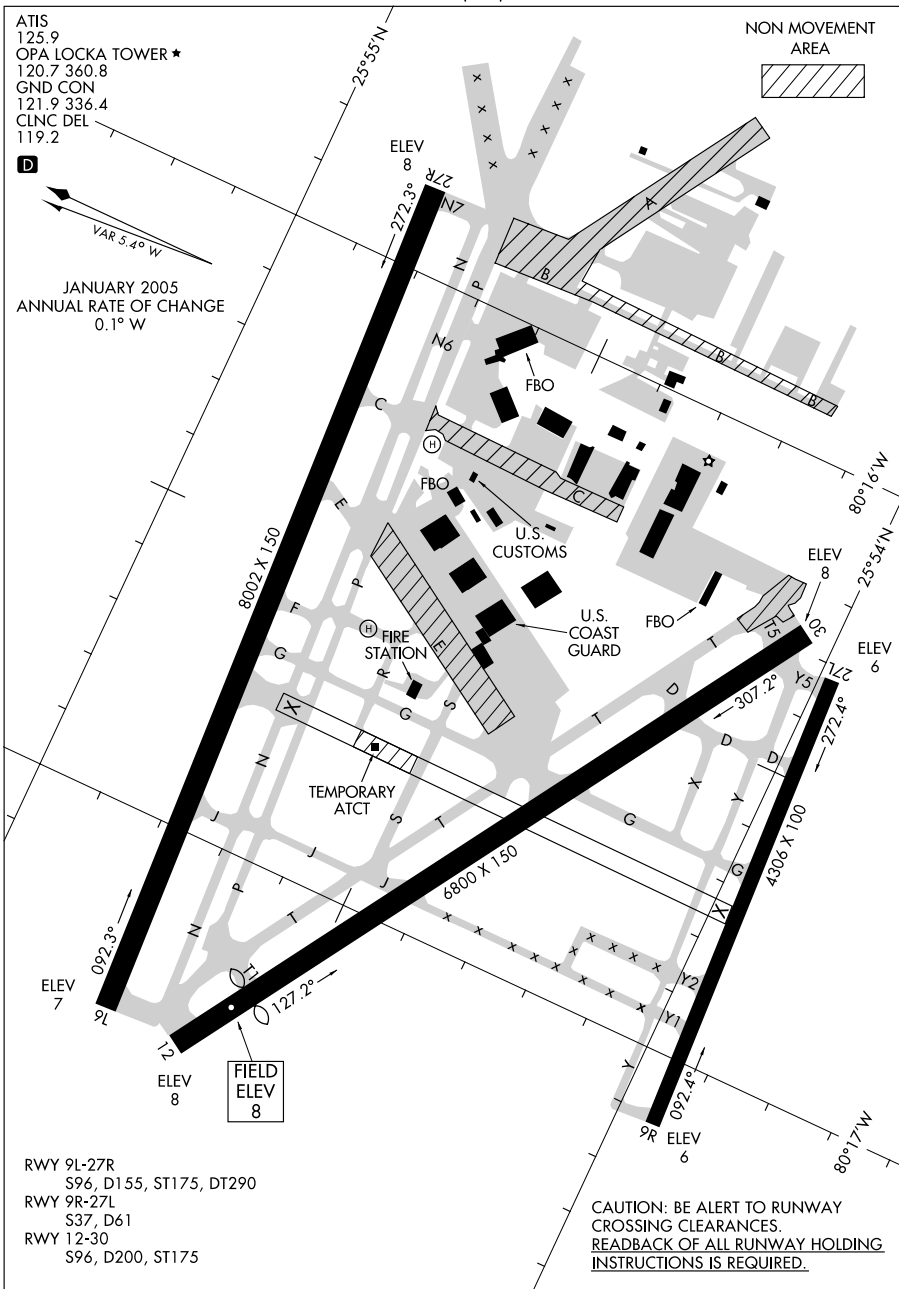
09183

 MIAMI, FLORIDA  
 MIAMI/KENDALL-TAMiami EXECUTIVE (TMB)



09239

## AIRPORT DIAGRAM

MIAMI/OPA LOCKA EXECUTIVE (OPF)  
MIAMI, FLORIDA

## AIRPORT DIAGRAM

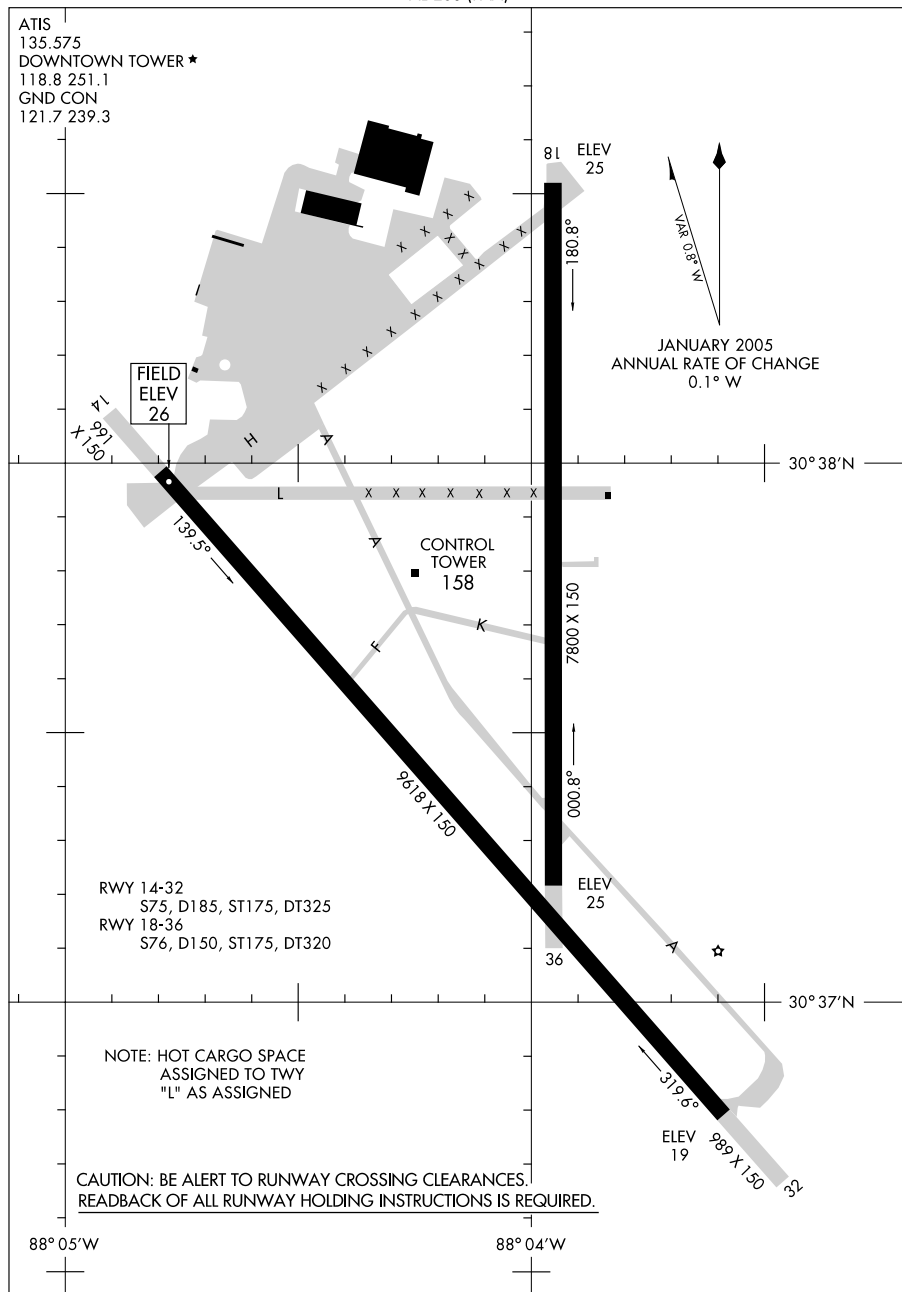
09239

MIAMI, FLORIDA  
MIAMI/OPA LOCKA EXECUTIVE (OPF)

07298

## AIRPORT DIAGRAM

AL-268 (FAA)

MOBILE DOWNTOWN (BFM)  
MOBILE, ALABAMA

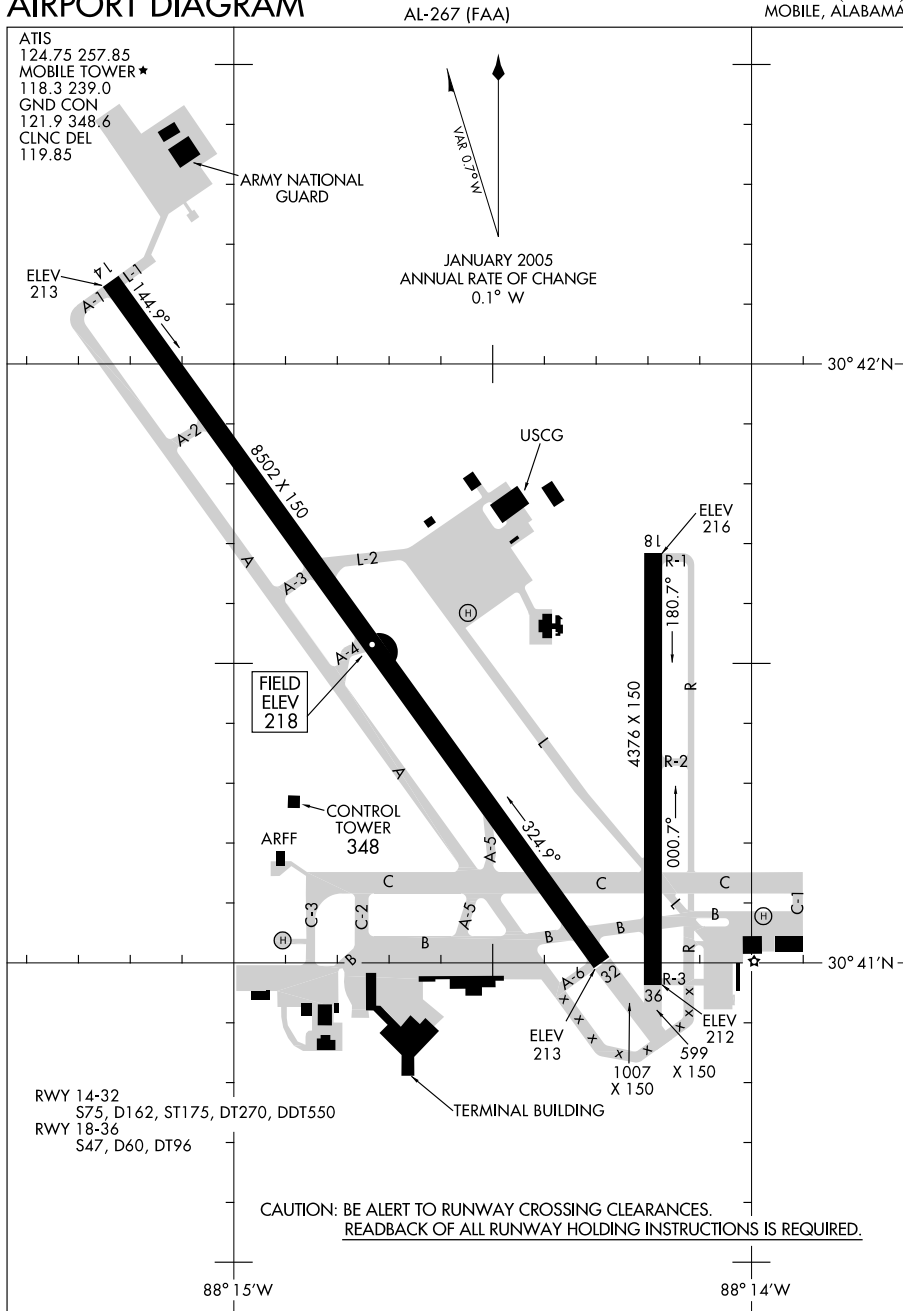
## AIRPORT DIAGRAM

07298

MOBILE, ALABAMA  
MOBILE DOWNTOWN (BFM)

08101

## AIRPORT DIAGRAM

MOBILE RGNL (MOB)  
MOBILE, ALABAMA

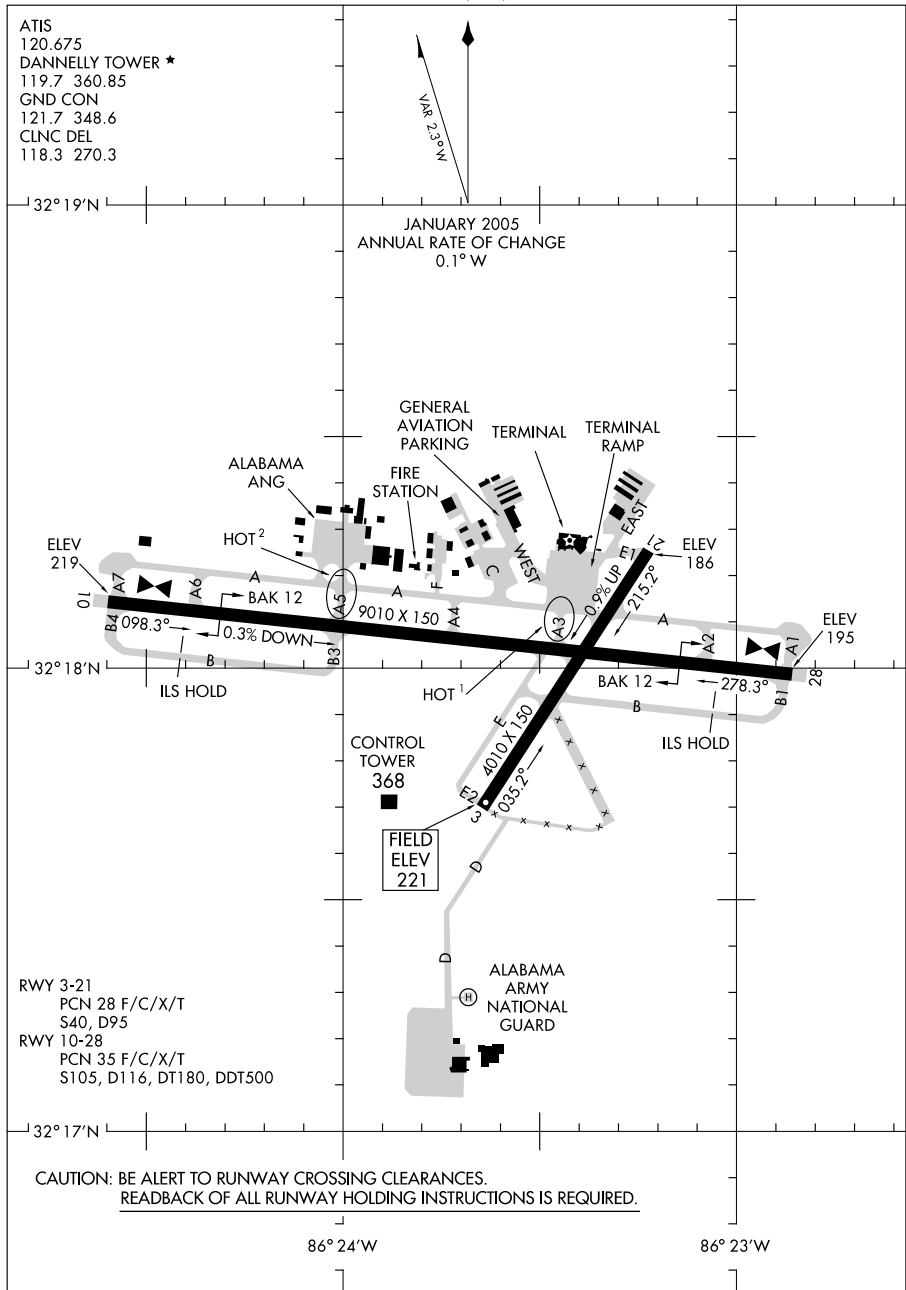
## AIRPORT DIAGRAM

08101

MOBILE, ALABAMA  
MOBILE RGNL (MOB)

09071

## AIRPORT DIAGRAM



## AIRPORT DIAGRAM

09071

MONTGOMERY, ALABAMA  
MONTGOMERY RGNL (DANNELLY FIELD)(MGM)

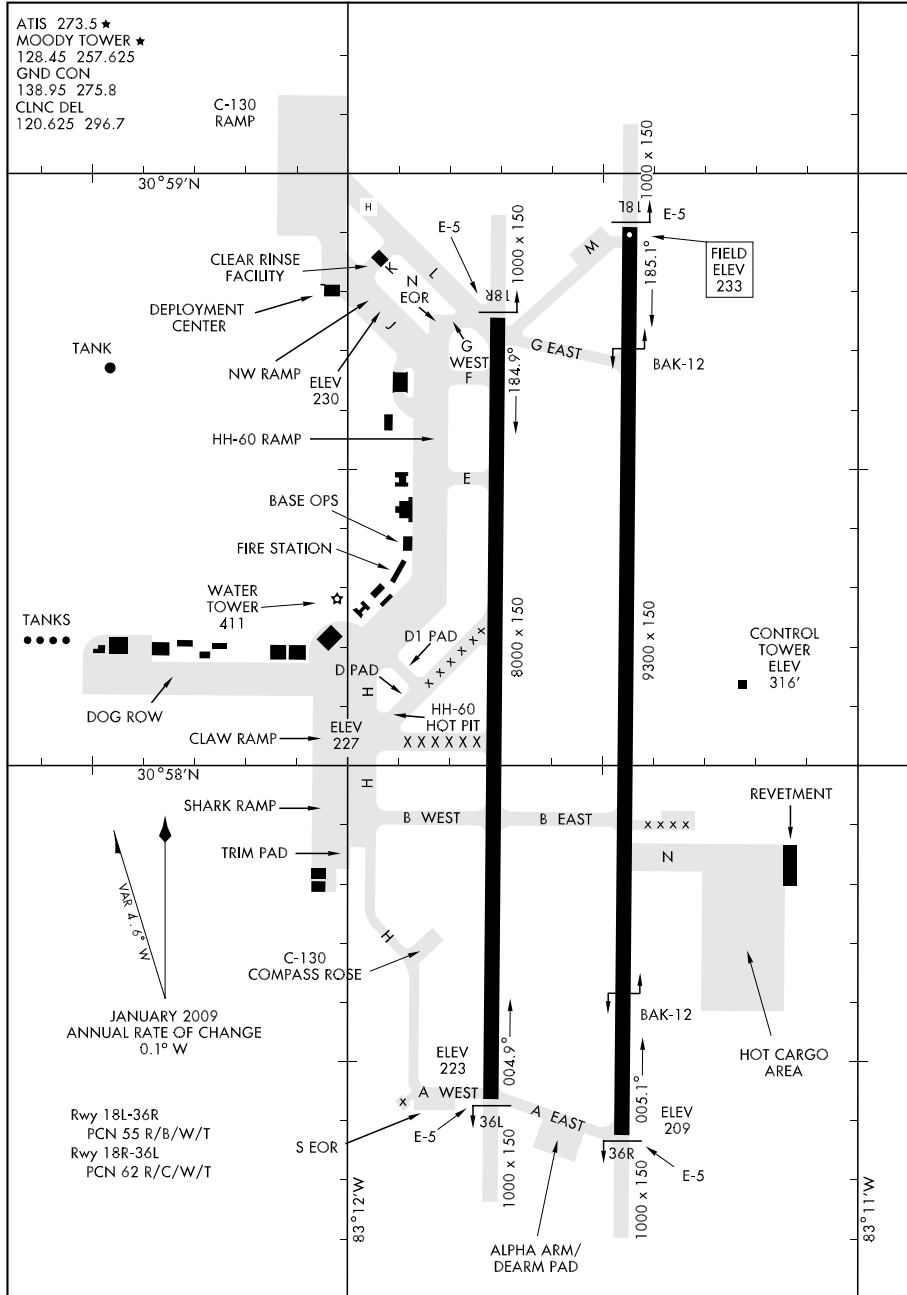
09015

## AIRPORT DIAGRAM

AFD-435 [USAF]

MOODY AFB (KVAD)

VALDOSTA, GEORGIA



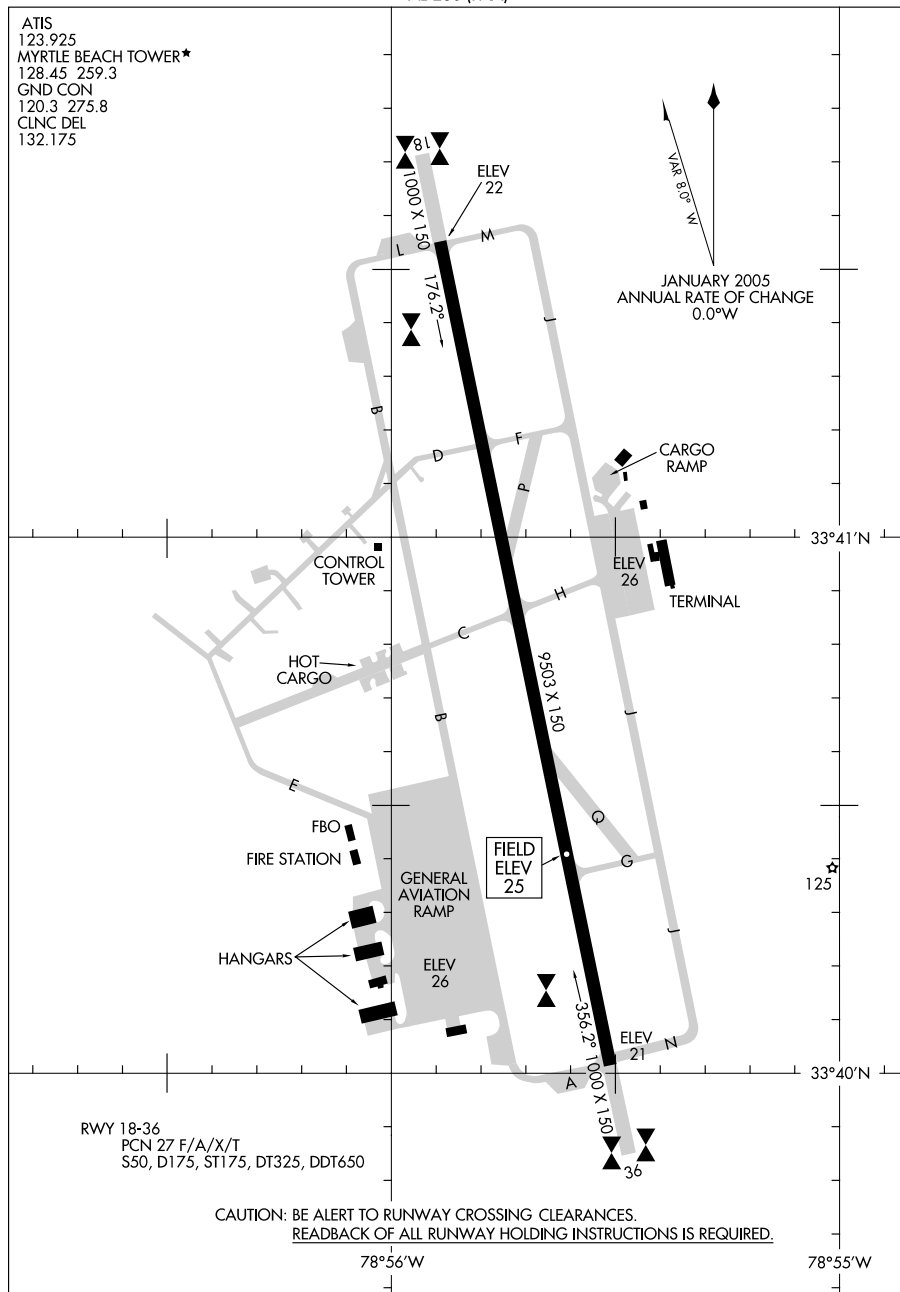
## AIRPORT DIAGRAM

 VALDOSTA, GEORGIA  
 MOODY AFB (KVAD)

09127

## AIRPORT DIAGRAM

AL-280 (FAA)

MYRTLE BEACH INTL (MYR)  
MYRTLE BEACH, SOUTH CAROLINA

## AIRPORT DIAGRAM

09127

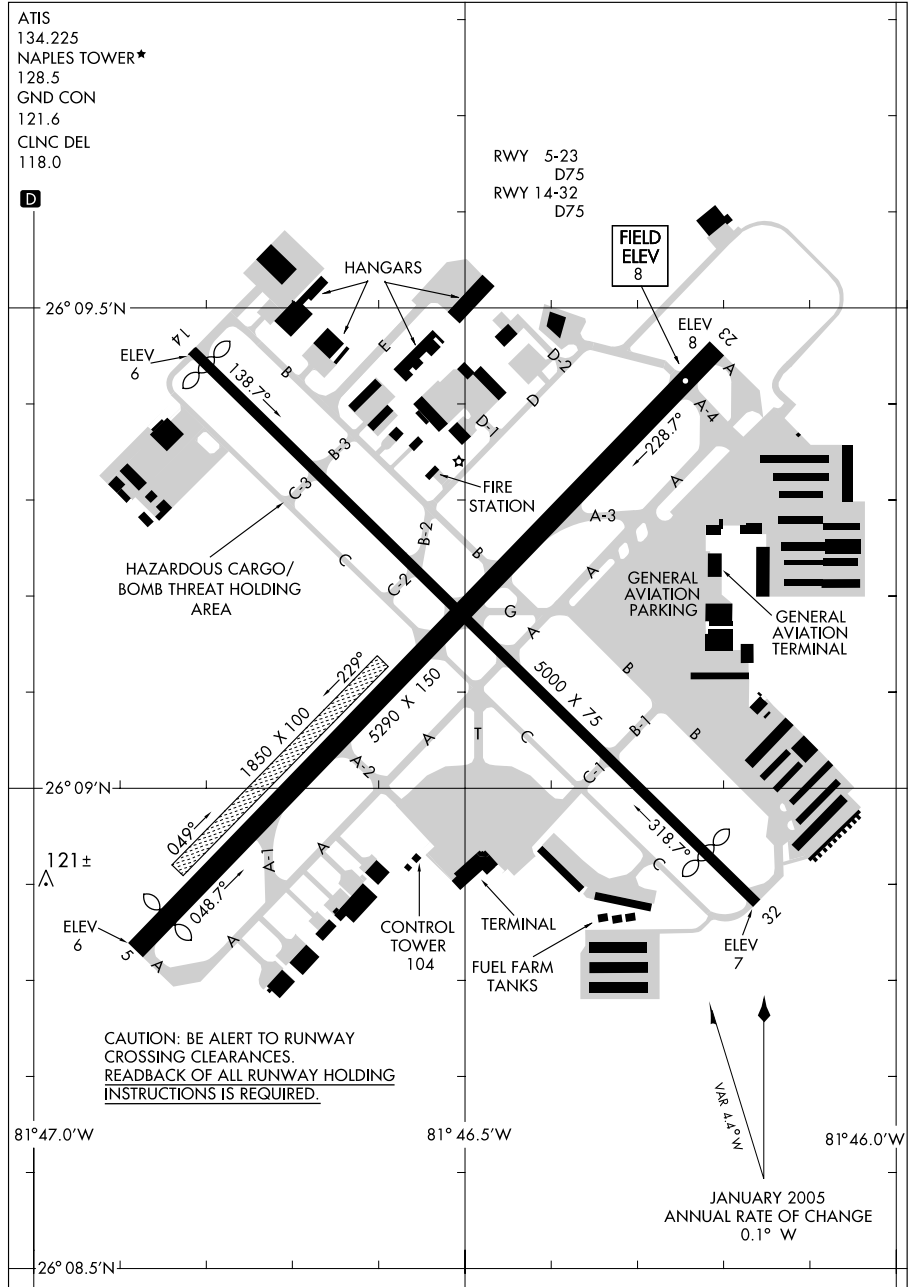
MYRTLE BEACH, SOUTH CAROLINA  
MYRTLE BEACH INTL (MYR)



09127

## AIRPORT DIAGRAM

AL-6020 (FAA)

NAPLES MUNI (APF)  
NAPLES, FLORIDA

## AIRPORT DIAGRAM

09127

NAPLES, FLORIDA  
NAPLES MUNI (APF)

09183

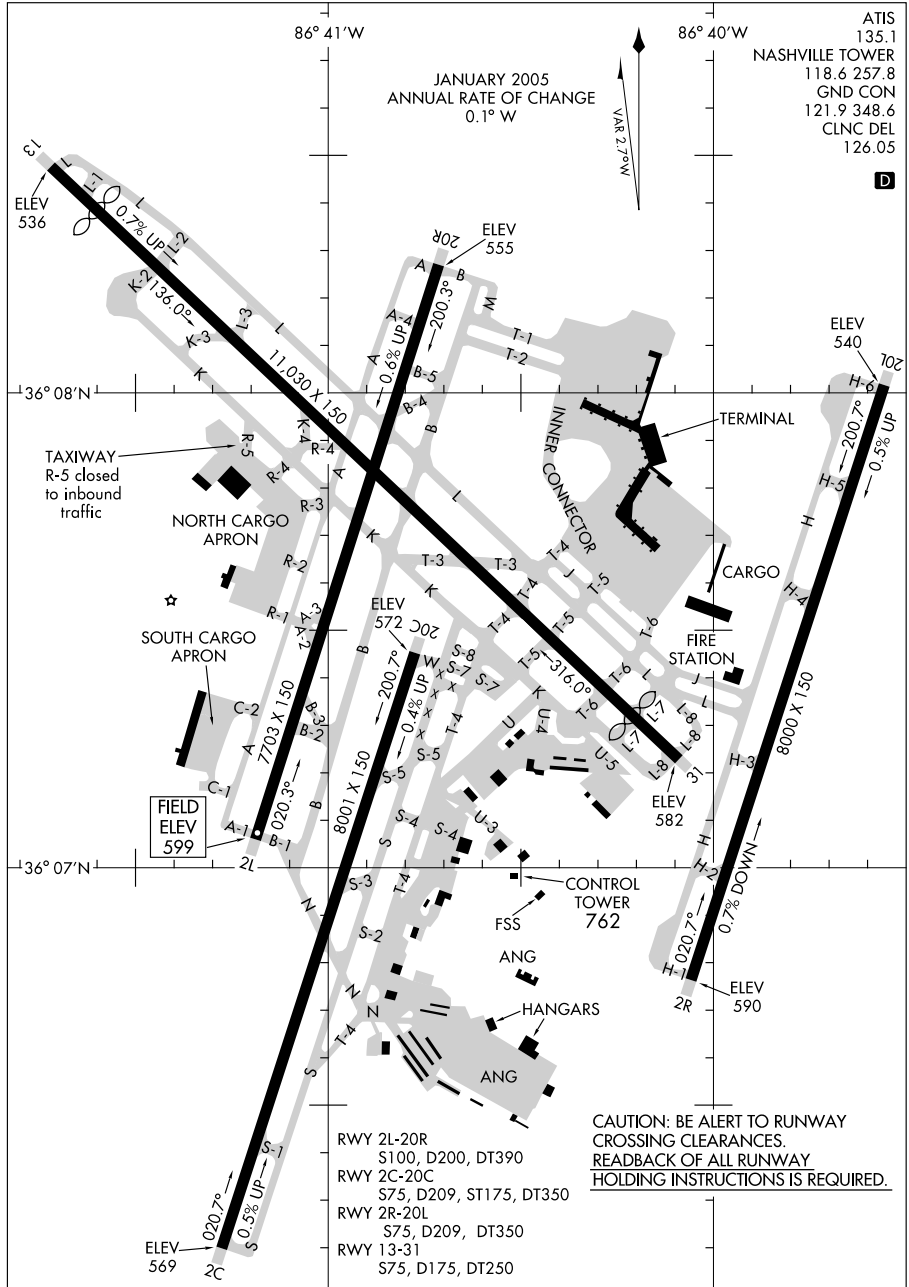
# AIRPORT DIAGRAM

AL-282 (FAA)

NASHVILLE INTL (BNA)  
NASHVILLE, TENNESSEE

ATIS  
135.1  
OWER  
257.8  
CON  
348.6  
C DEL  
26.05

**D**



## AIRPORT DIAGRAM

09183

NASHVILLE, TENNESSEE  
NASHVILLE INTL (BNA)

SE, 22 OCT 2009 to 17 DEC 2009

09183

## AIRPORT DIAGRAM

NEW BERN/COASTAL CAROLINA RGNL (E'W'N')  
AL-670 (FAA) NEW BERN, NORTH CAROLINA

ASOS

118.525

NEW BERN TOWER ★

124.25

GND CON

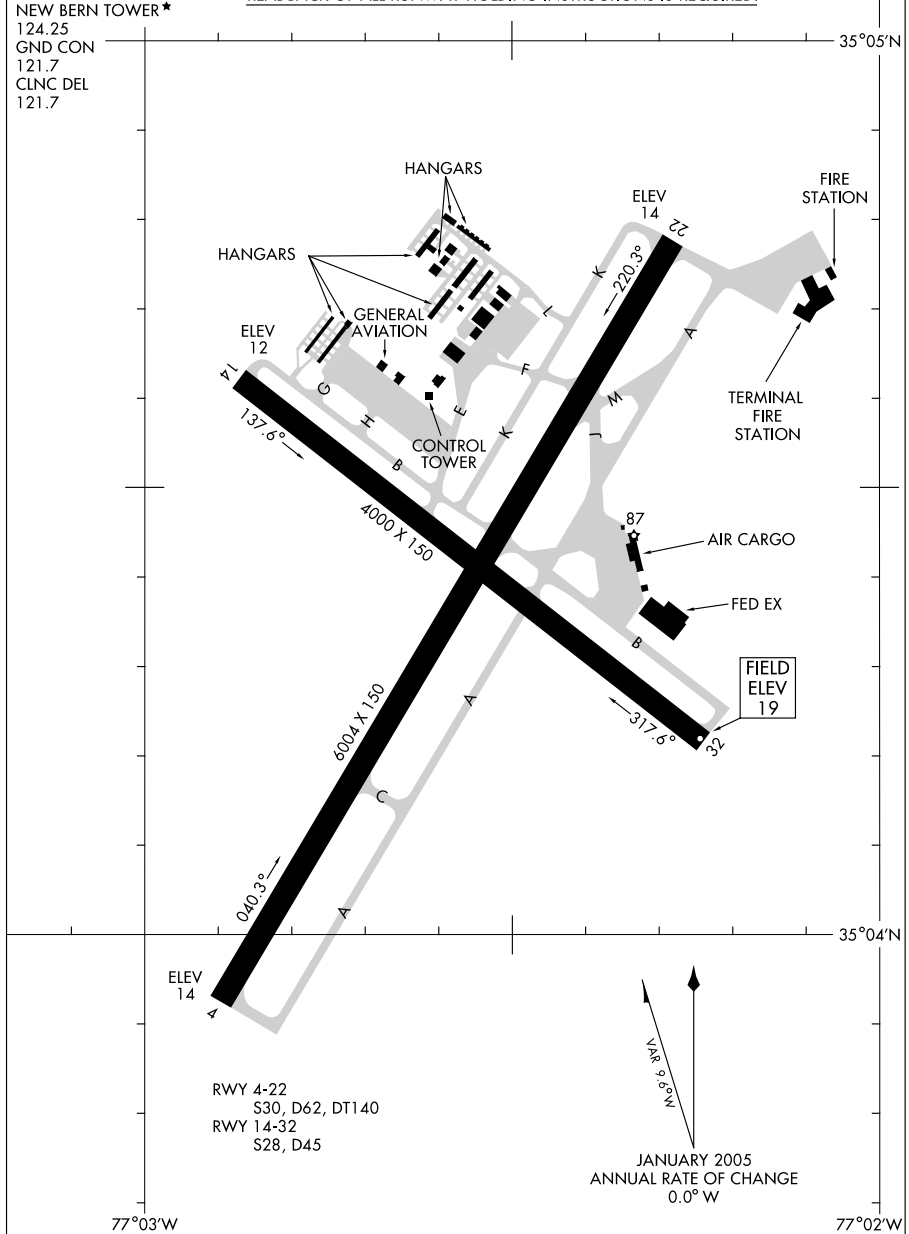
121.7

CLNC DEL

121.7

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.

READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.



## AIRPORT DIAGRAM

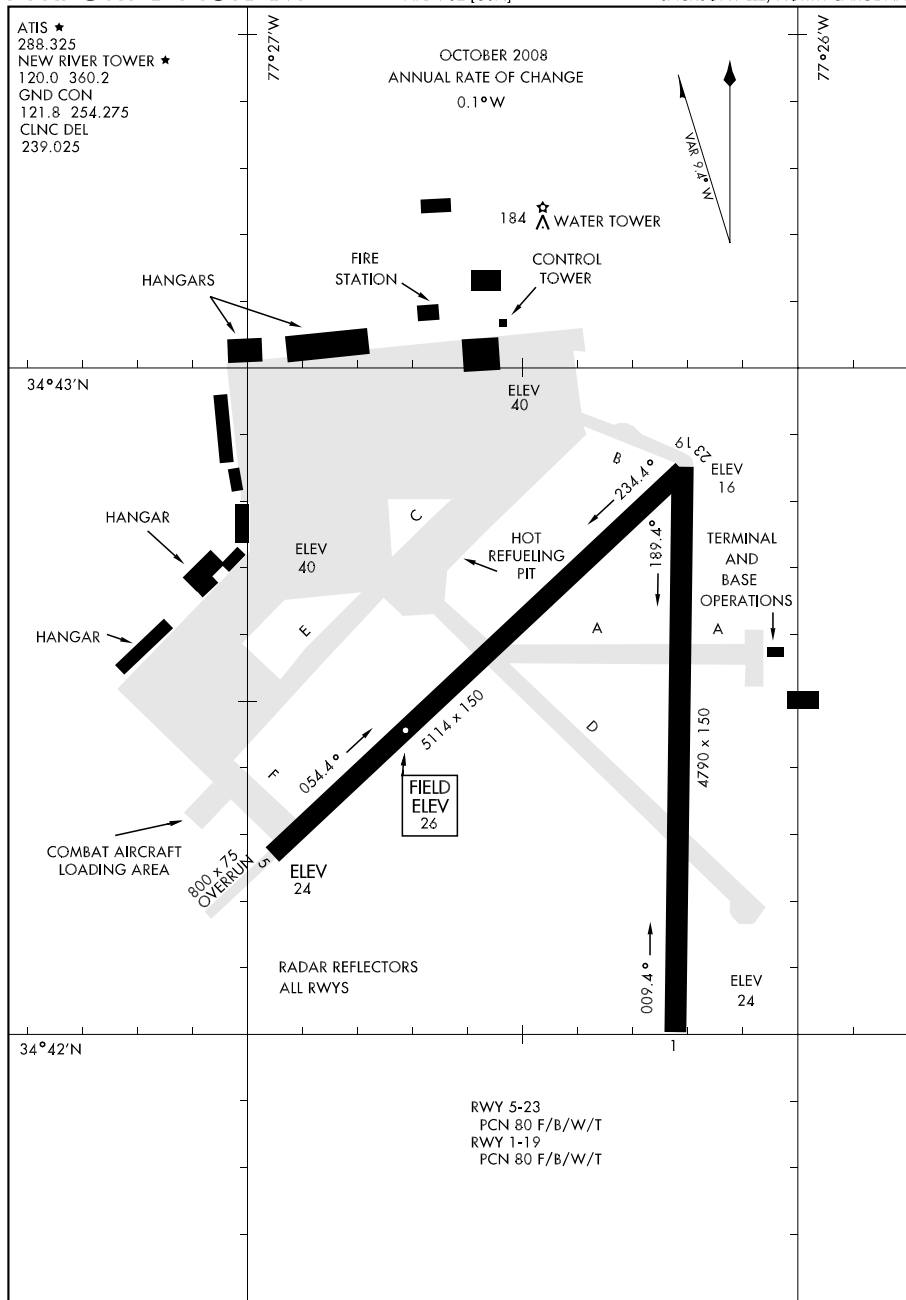
09183

NEW BERN, NORTH CAROLINA  
NEW BERN/COASTAL CAROLINA RGNL (E'W'N')

08325

## AIRPORT DIAGRAM

AFD-732 [USN]

NEW RIVER MCAS (KNCA)  
JACKSONVILLE, NORTH CAROLINA

## AIRPORT DIAGRAM

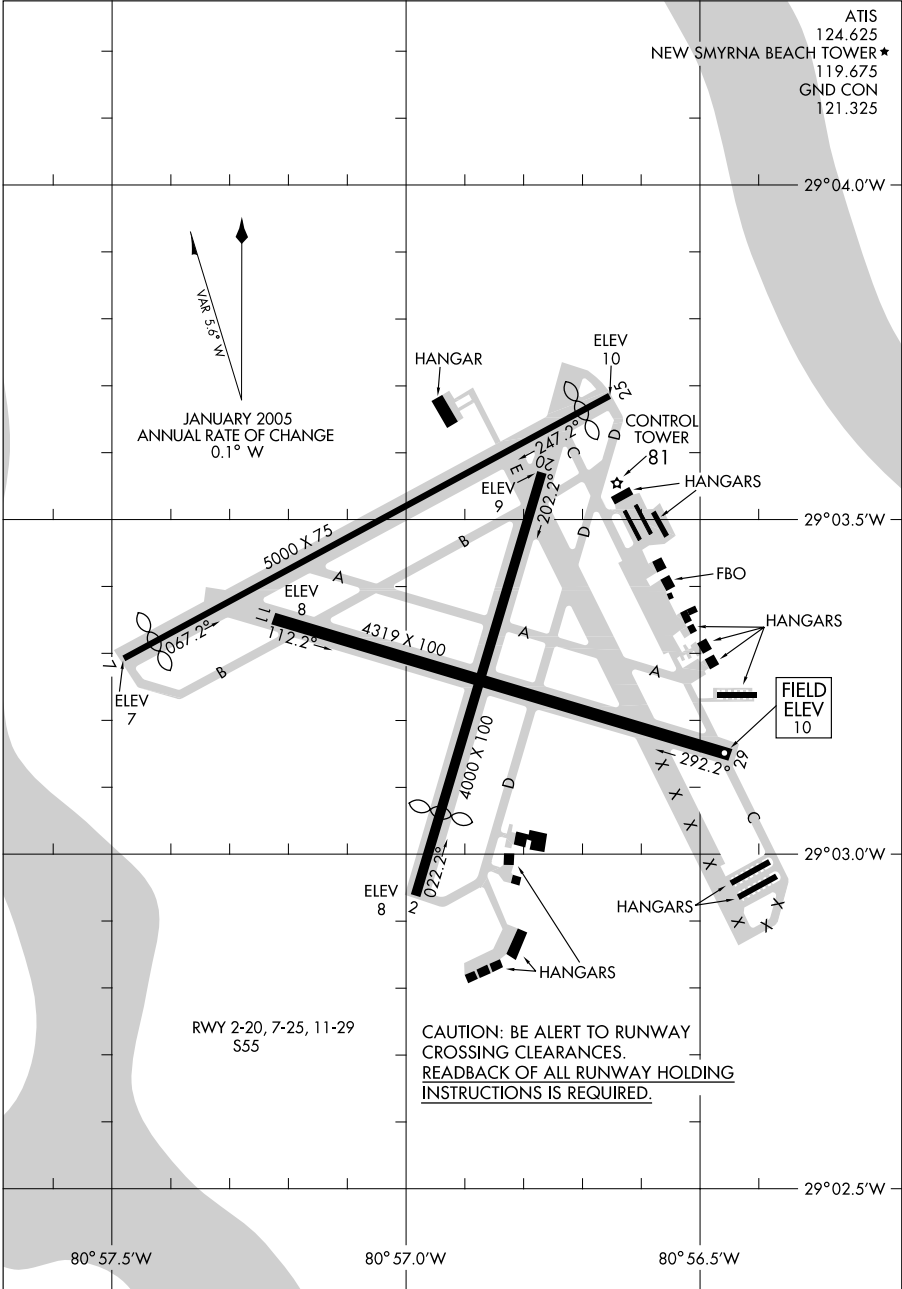
JACKSONVILLE, NORTH CAROLINA  
NEW RIVER MCAS (KNCA)

09295

AIRPORT DIAGRAM

AL-6459 (FAA)

NEW SMYRNA BEACH MUNI (EVB)  
NEW SMYRNA BEACH, FLORIDA



AIRPORT DIAGRAM

09295

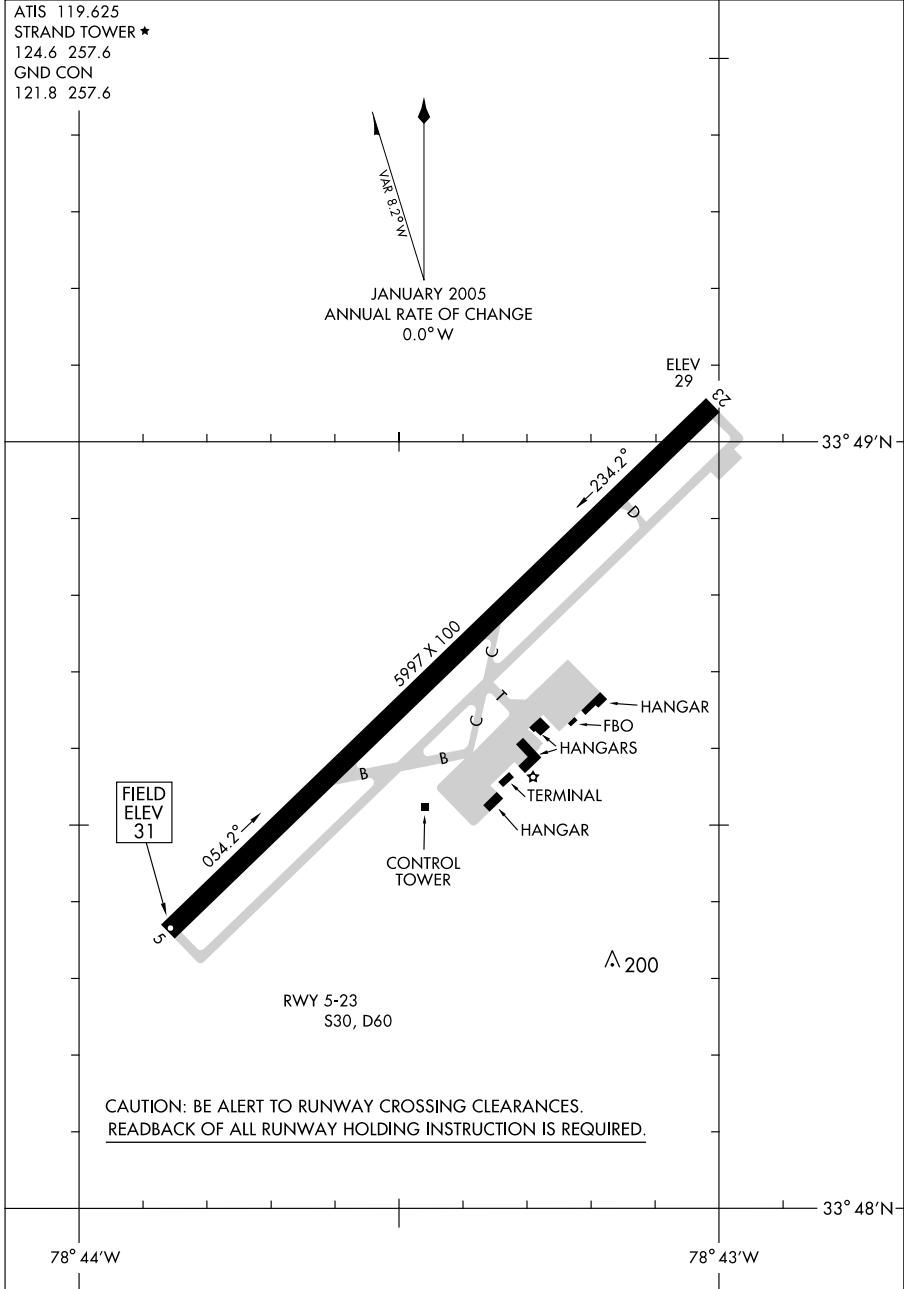
NEW SMYRNA BEACH, FLORIDA  
NEW SMYRNA BEACH MUNI (EVB)

08213

AIRPORT DIAGRAM

NORTH MYRTLE BEACH/GRAND STRAND (CRE)  
NORTH MYRTLE BEACH, SOUTH CAROLINA

AL-5097 (FAA)



AIRPORT DIAGRAM

33° 49'N - 78° 44'W  
NORTH MYRTLE BEACH, SOUTH CAROLINA  
NORTH MYRTLE BEACH/GRAND STRAND (CRE)

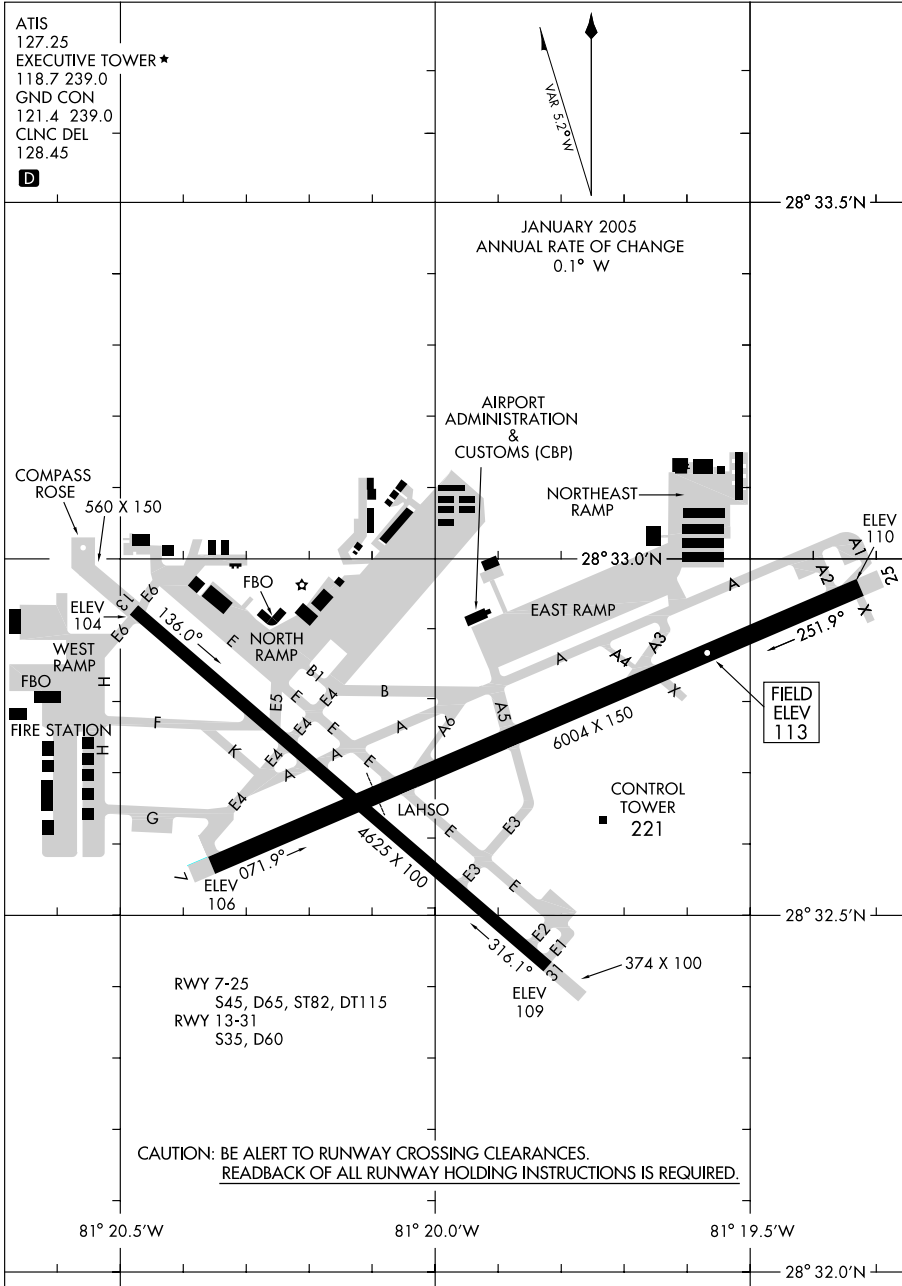
08213

09239

# AIRPORT DIAGRAM

AL-305 (FAA)

ORLANDO/EXECUTIVE (ORL)  
ORLANDO, FLORIDA



# AIRPORT DIAGRAM

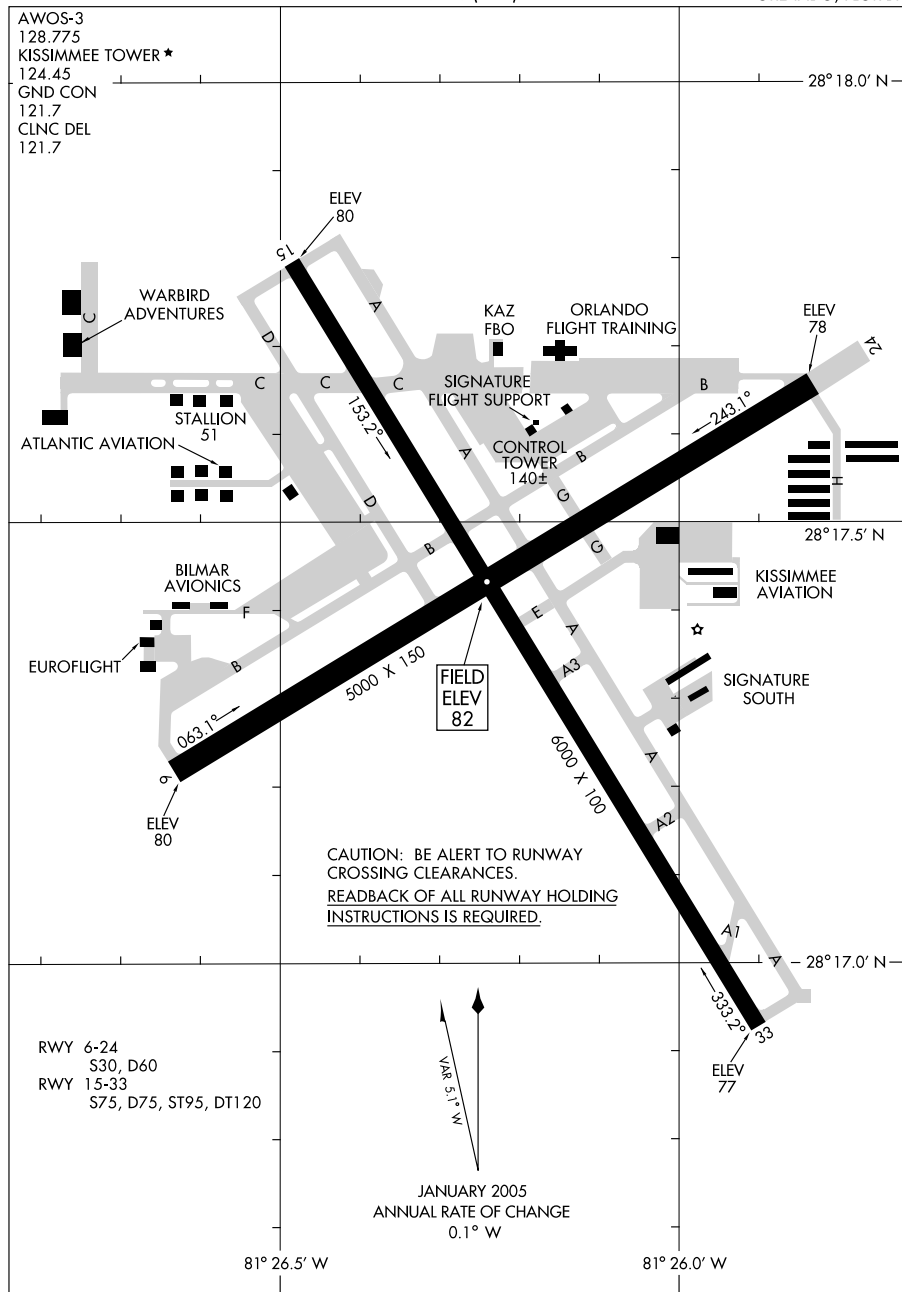
09239

ORLANDO, FLORIDA  
ORLANDO/EXECUTIVE (ORL)

09127

## AIRPORT DIAGRAM

ORLANDO/KISSIMMEE GATEWAY (ISM)  
AL-5793 (FAA) ORLANDO, FLORIDA



## AIRPORT DIAGRAM

09127

ORLANDO, FLORIDA  
ORLANDO/KISSIMMEE GATEWAY (ISM)





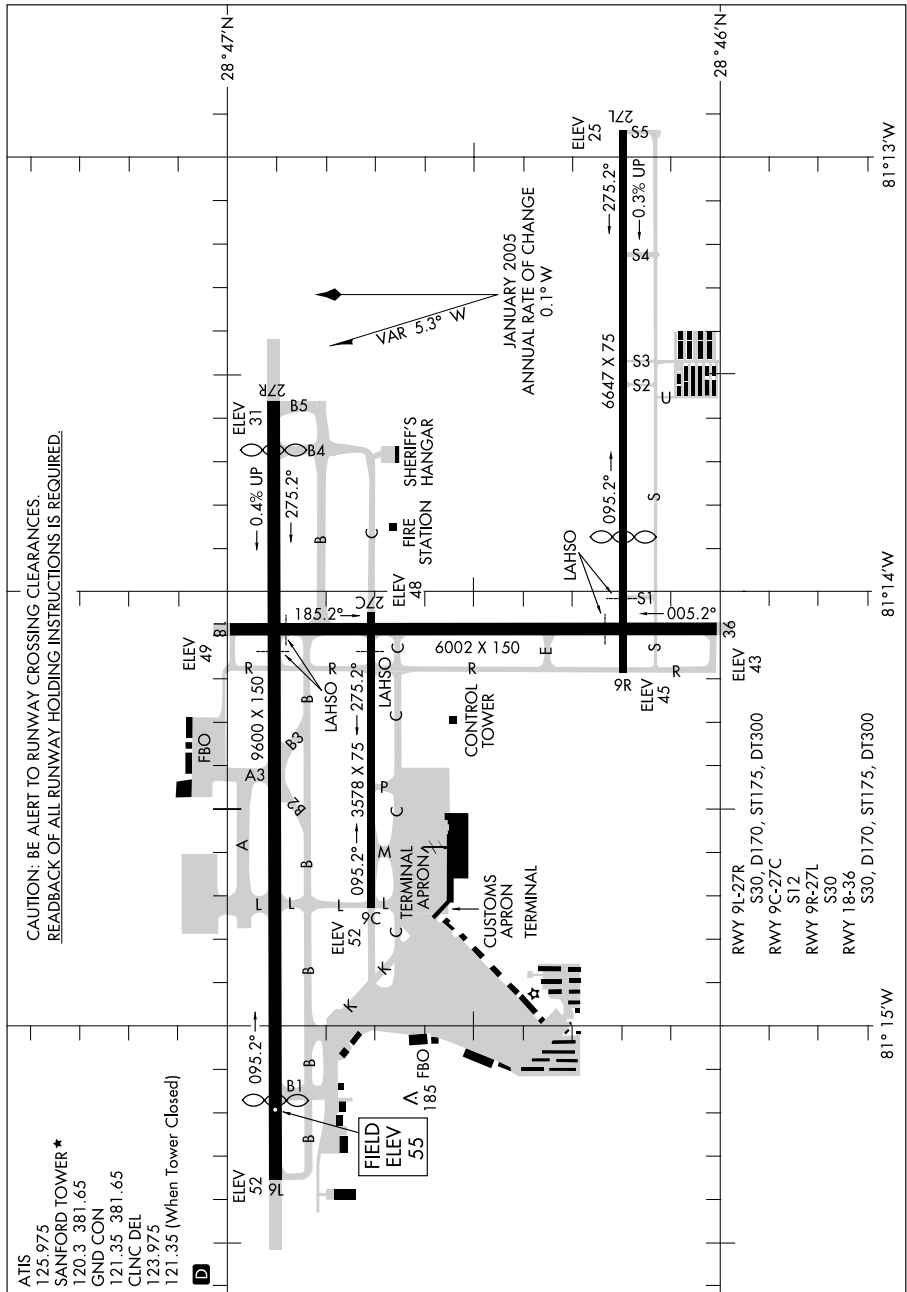
09071

# AIRPORT DIAGRAM

AL-917 (FAA)

ORLANDO SANFORD INTL (SFB)

ORLANDO, FLORIDA



# AIRPORT DIAGRAM

09071

ORLANDO, FLORIDA  
ORLANDO SANFORD INTL (SFB)

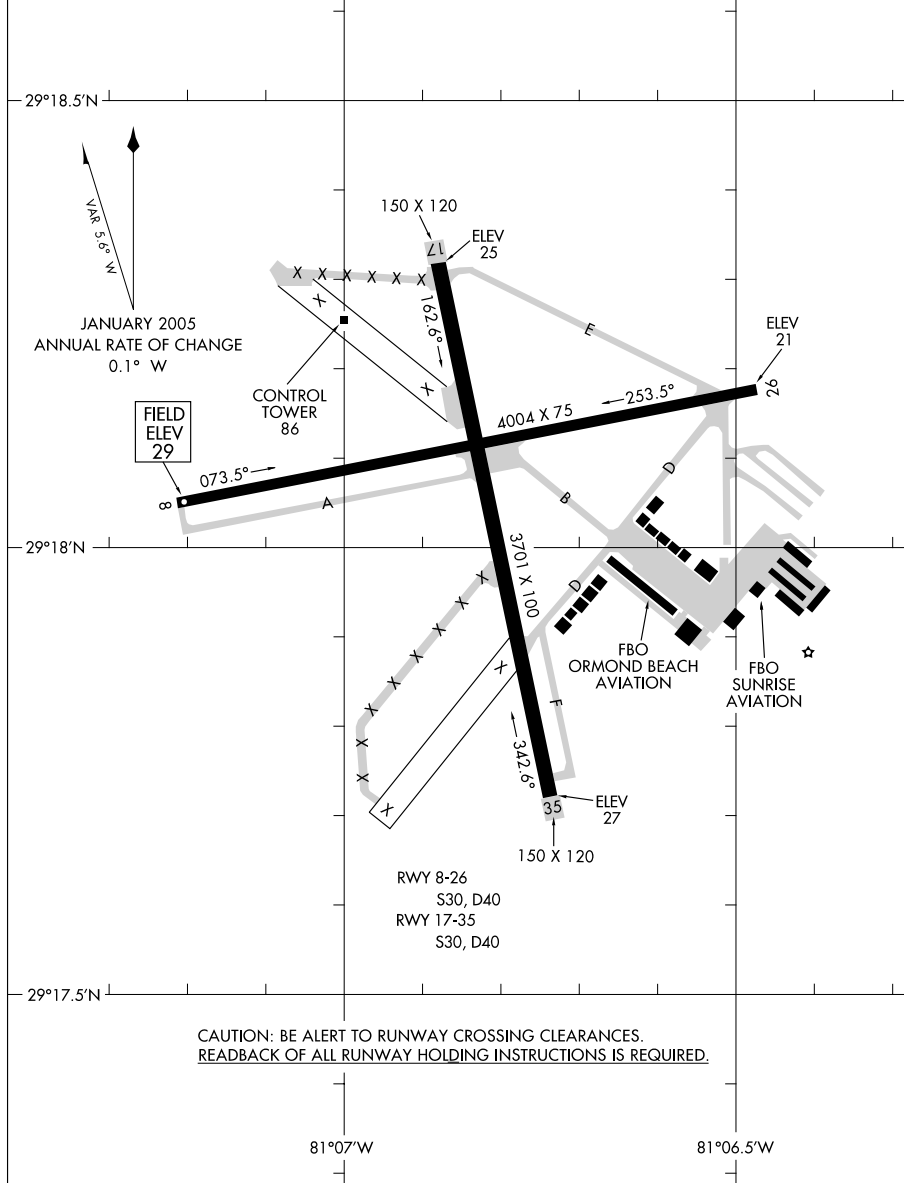
08157

## AIRPORT DIAGRAM

AL-5459 (FAA)

ORMOND BEACH MUNI (OMN)  
ORMOND BEACH, FLORIDA

ATIS 118.475  
ORMOND BEACH TOWER ★  
119.075  
GND CON 121.625  
CLNC DEL 121.625



## AIRPORT DIAGRAM

08157

ORMOND BEACH, FLORIDA  
ORMOND BEACH MUNI (OMN)

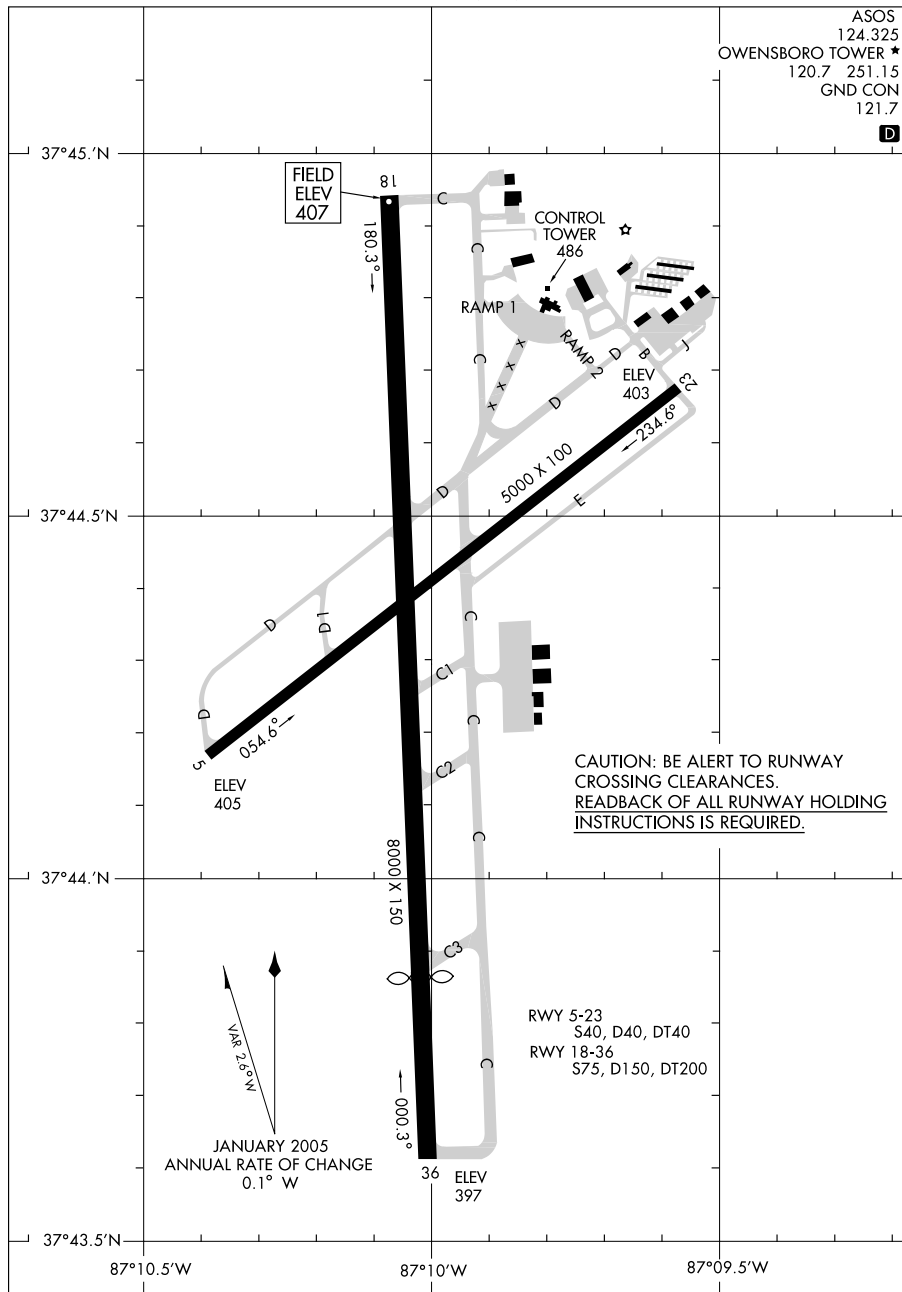
09071

## AIRPORT DIAGRAM

AL-707 (FAA)

OWENSBORO-DAVISS COUNTY (OWB)

OWENSBORO, KENTUCKY



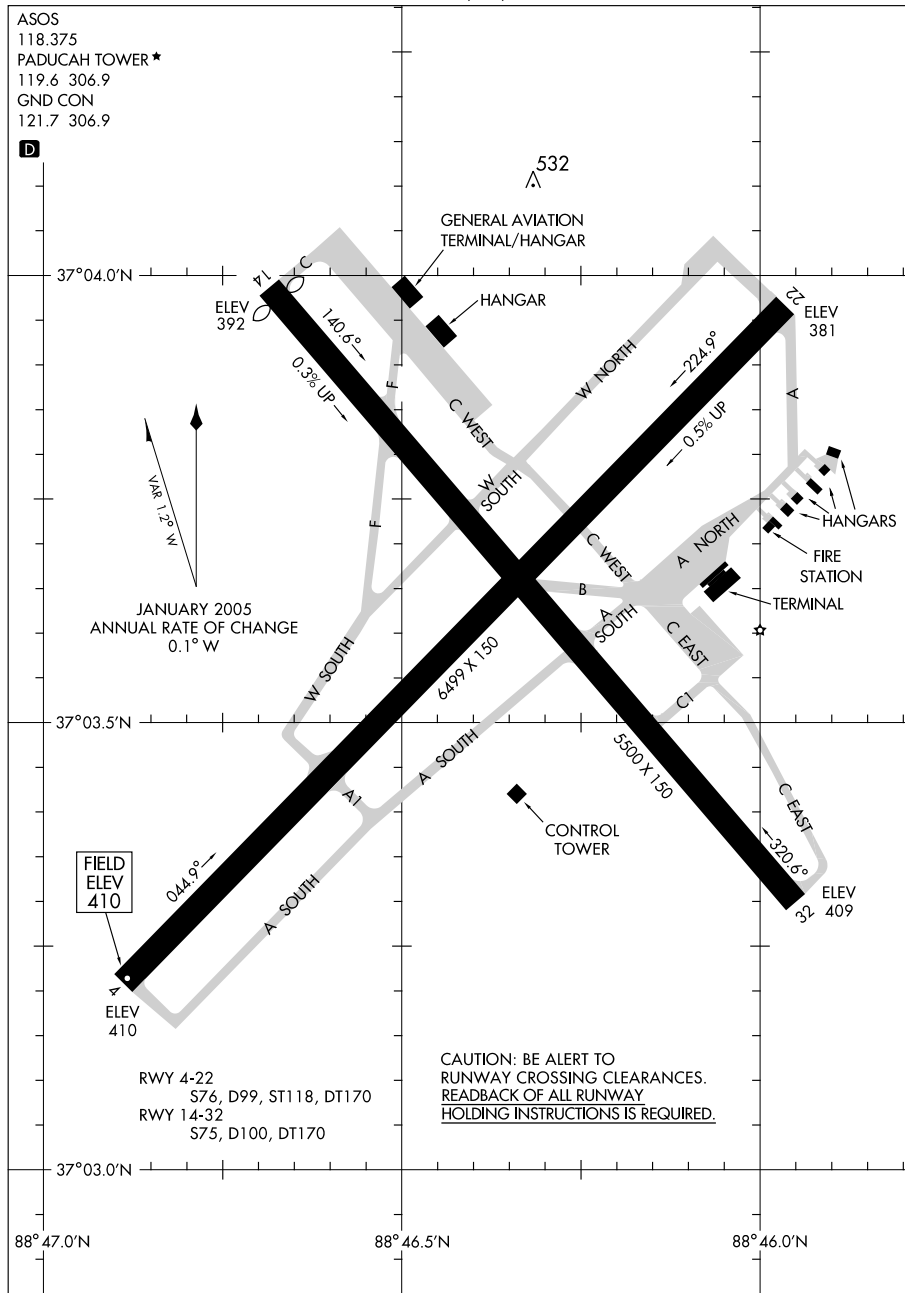
## AIRPORT DIAGRAM

09071

OWENSBORO, KENTUCKY  
OWENSBORO-DAVISS COUNTY (OWB)

09071

## AIRPORT DIAGRAM

PADUCAH/BARKLEY RGNL (PAH)  
PADUCAH, KENTUCKY

## AIRPORT DIAGRAM

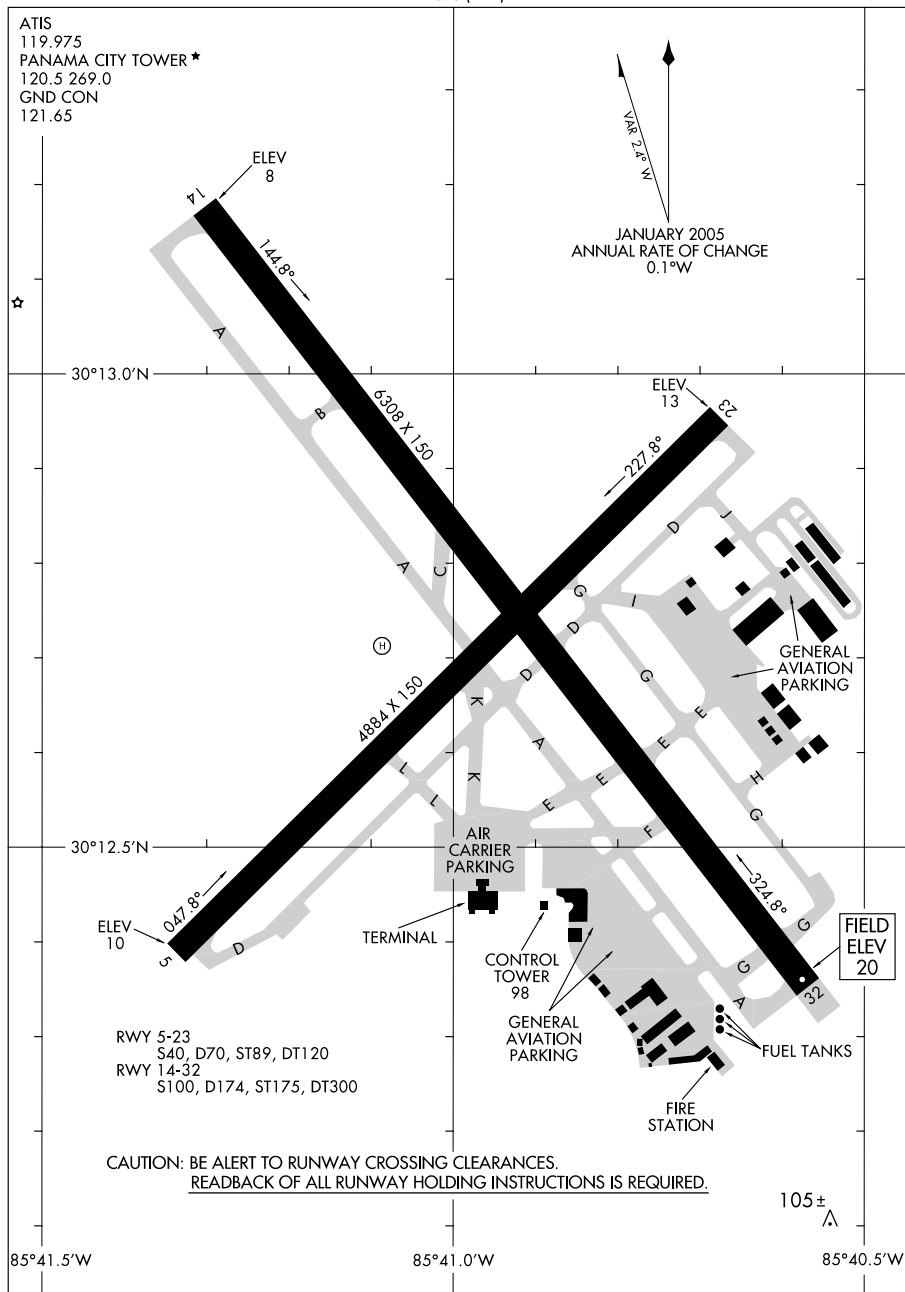
09071

PADUCAH, KENTUCKY  
PADUCAH/BARKLEY RGNL (PAH)

09183

## AIRPORT DIAGRAM

AL-695 (FAA)

PANAMA CITY-BAY COUNTY INTL (PF'N)  
PANAMA CITY, FLORIDA

## AIRPORT DIAGRAM

09183

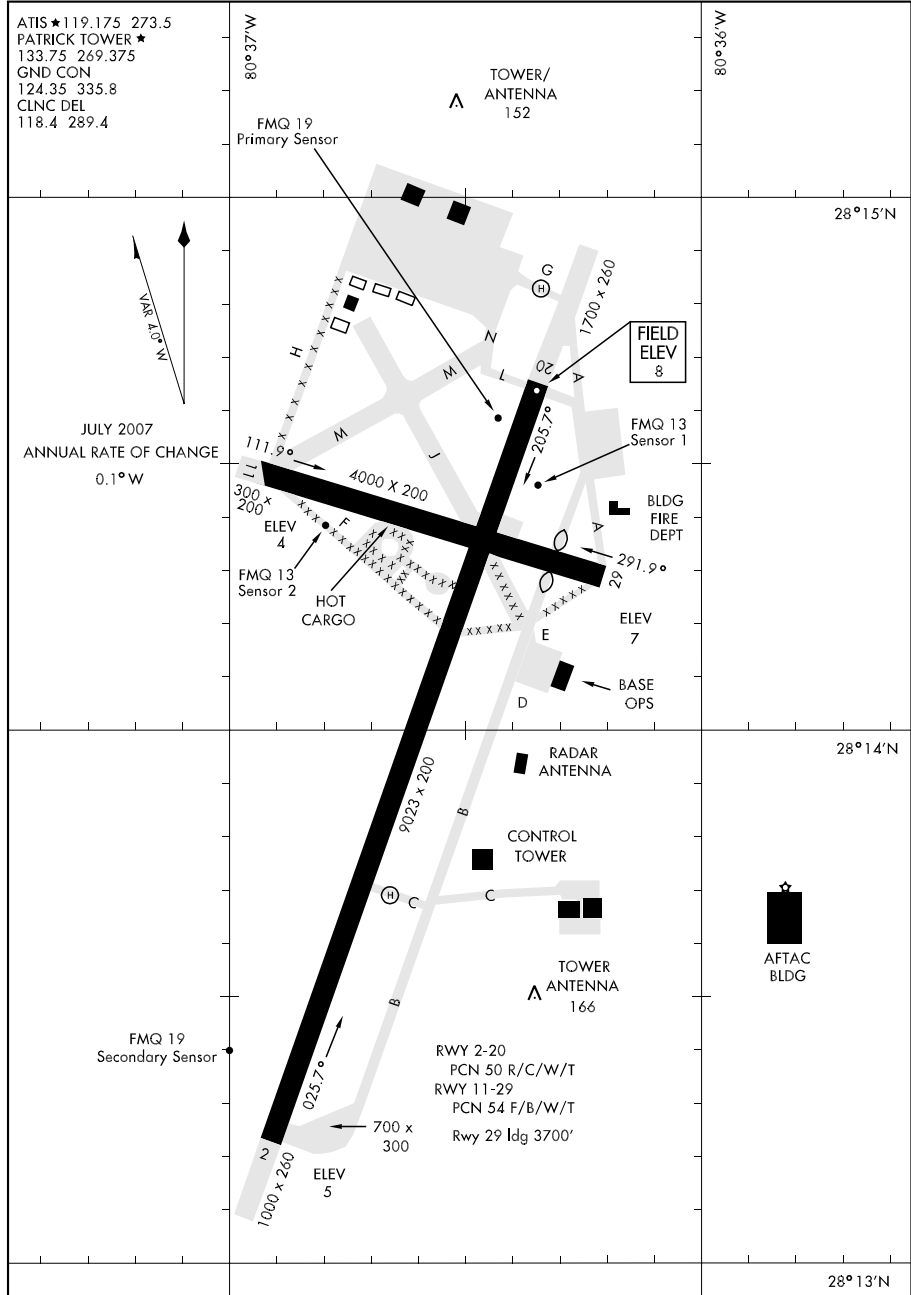
PANAMA CITY, FLORIDA  
PANAMA CITY-BAY COUNTY INTL (PF'N)

07186

# AIRPORT DIAGRAM

AFD-38 [USAF]

PATRICK AFB (KCOF)  
COCOA BEACH, FLORIDA



# AIRPORT DIAGRAM

COCOA BEACH, FLORIDA  
PATRICK AFB (KCOF)

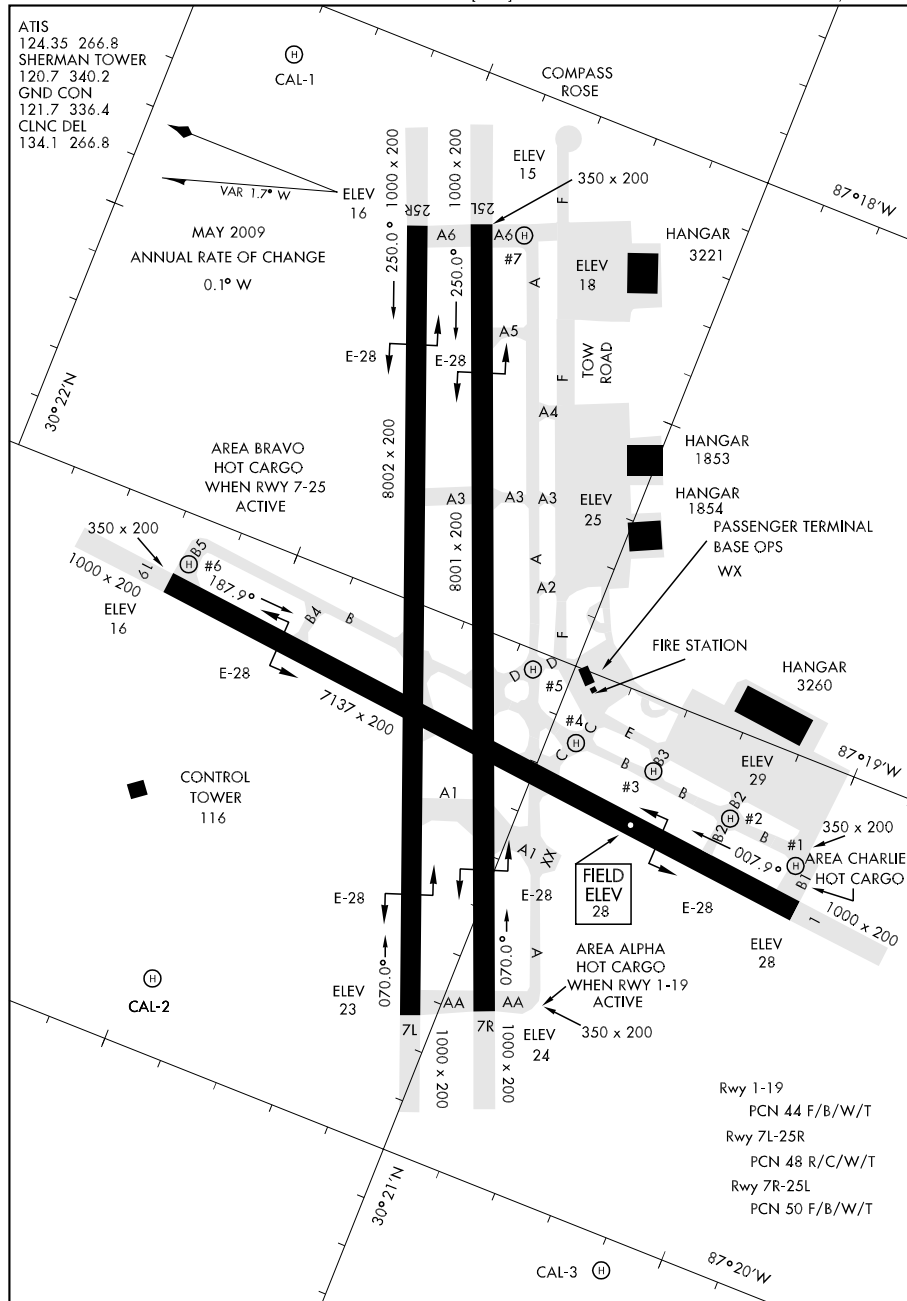
09127

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

## AIRPORT DIAGRAM

AFD-736 [USN]

PENSACOLA, FLORIDA



## AIRPORT DIAGRAM

PENSACOLA, FLORIDA

PENSACOLA NAS (FORREST SHERMAN FLD) (KNPA)

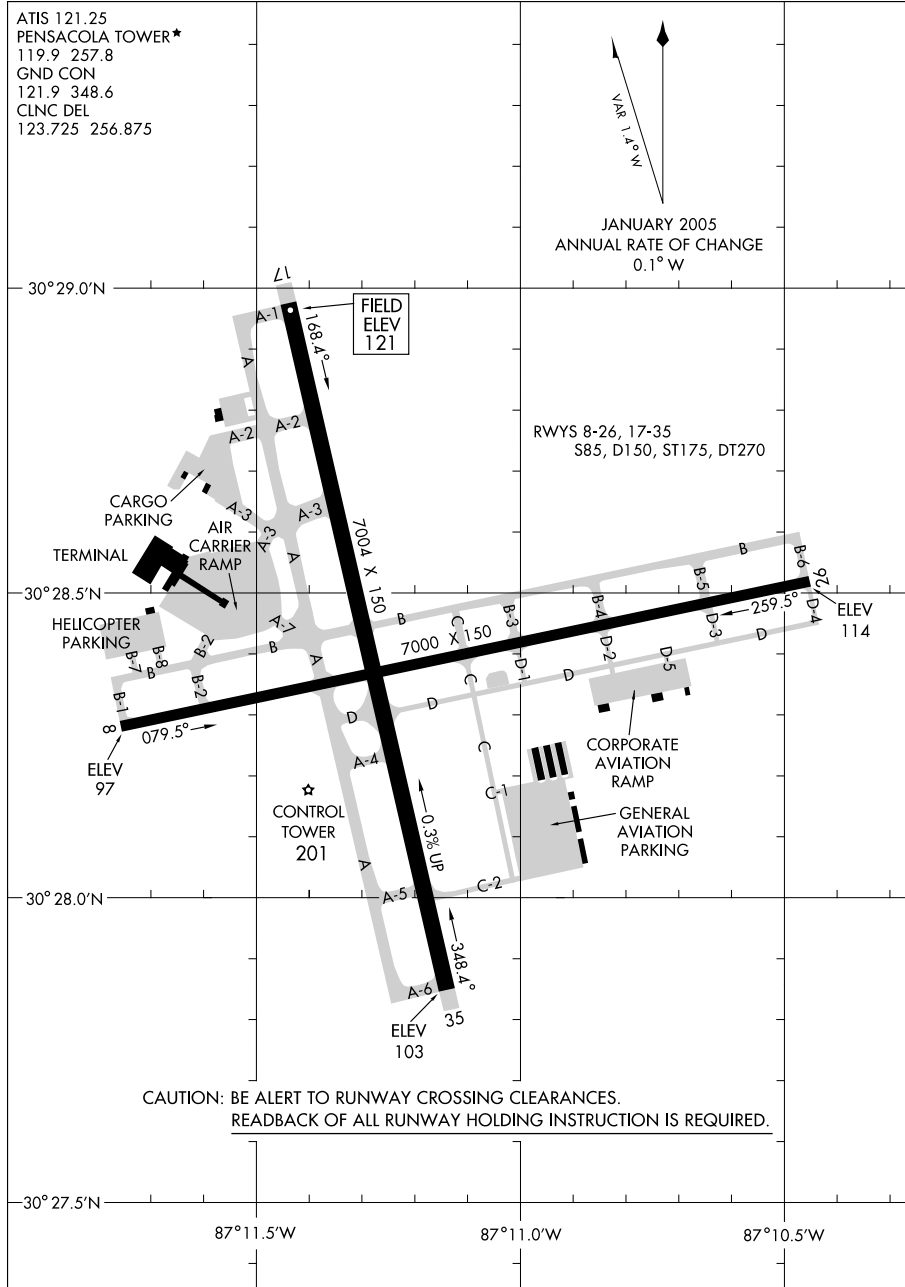


07354

# AIRPORT DIAGRAM

AL-318 (FAA)

PENSACOLA RGNL (PNS)  
PENSACOLA, FLORIDA



# AIRPORT DIAGRAM

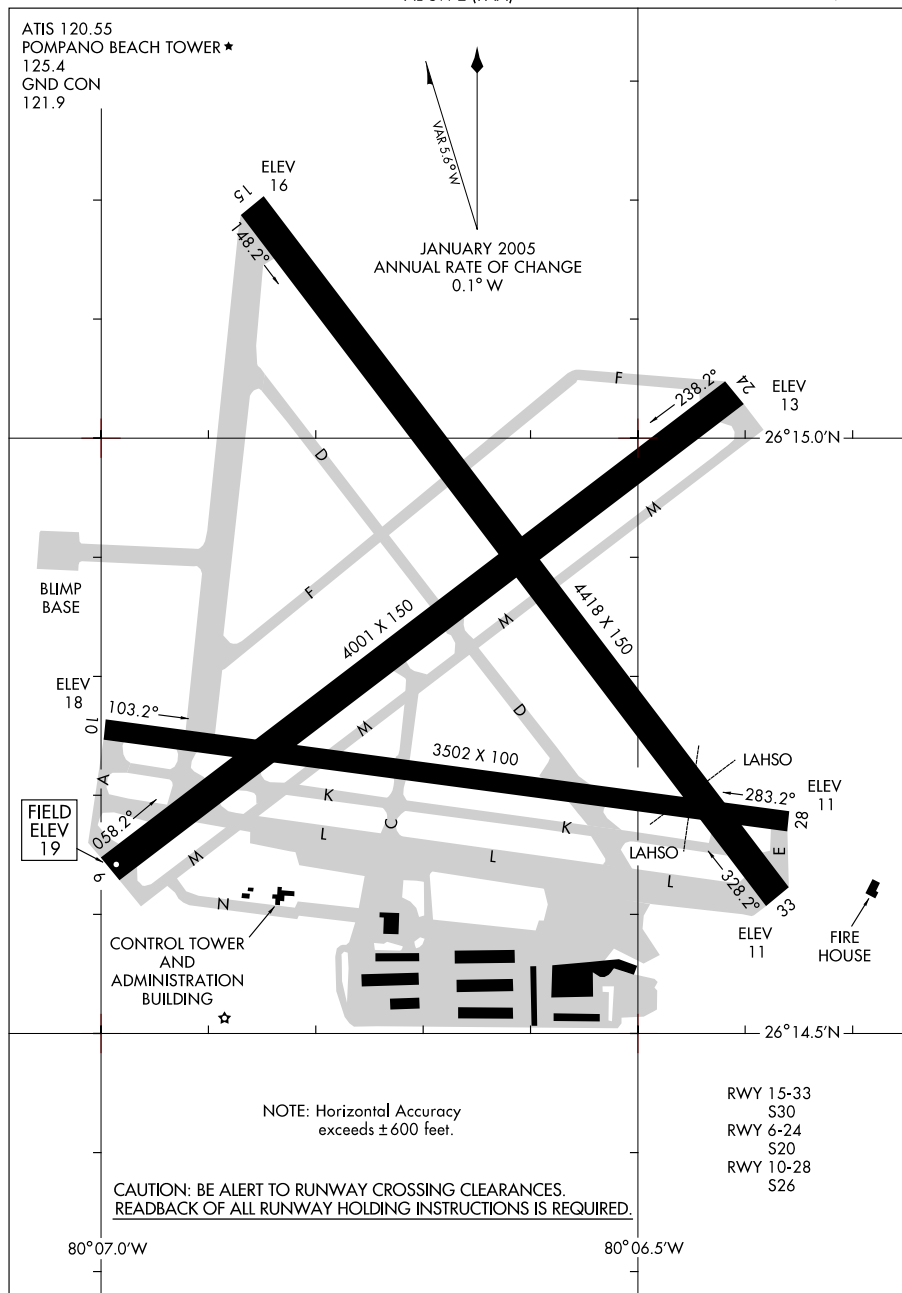
07354

PENSACOLA, FLORIDA  
PENSACOLA RGNL (PNS)

06215

## AIRPORT DIAGRAM

AL-5972 (FAA)

POMPAN0 BEACH AIRPARK (PMP)  
POMPAN0 BEACH, FLORIDA

## AIRPORT DIAGRAM

06215

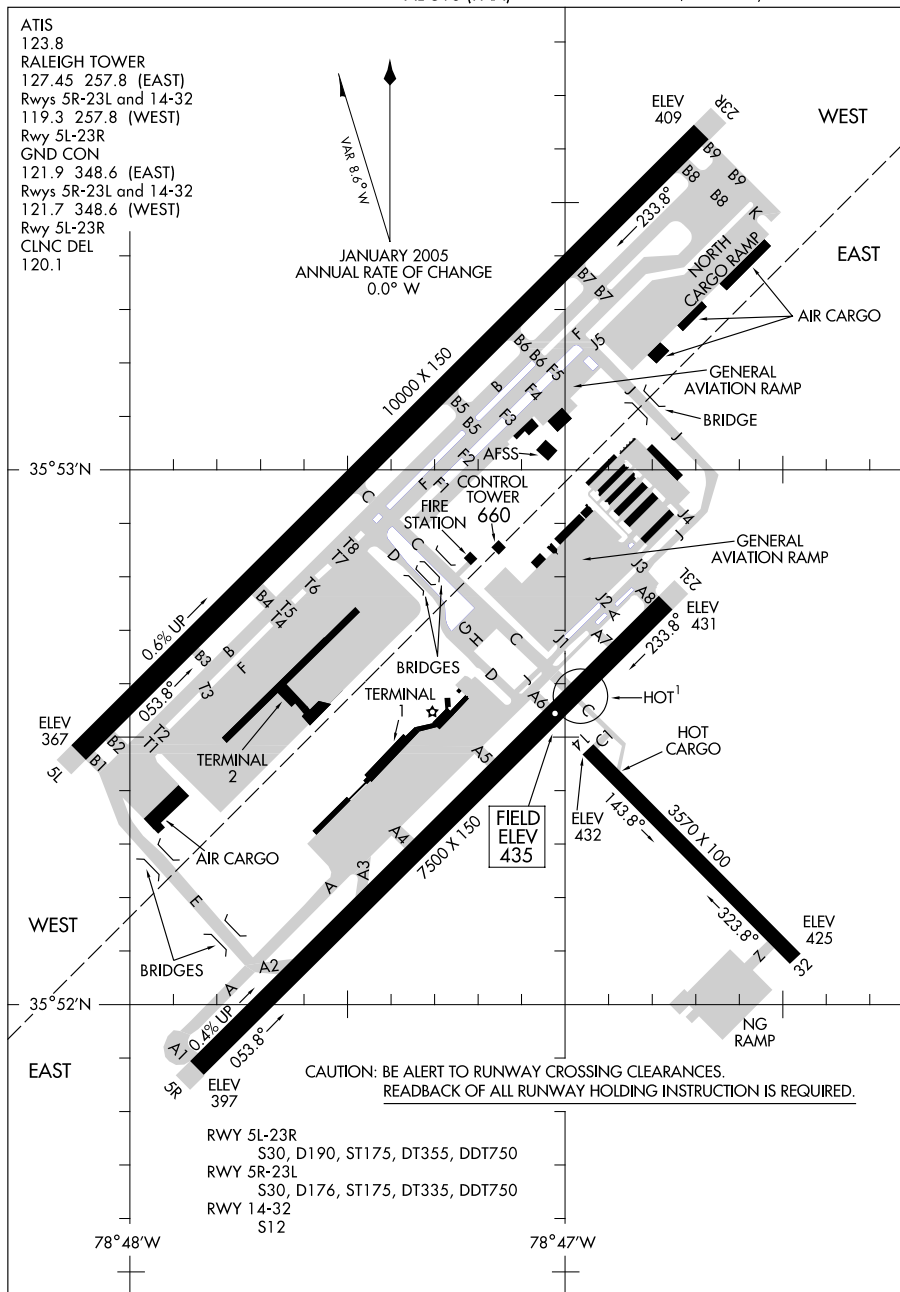
POMPAN0 BEACH, FLORIDA  
POMPAN0 BEACH AIRPARK (PMP)



09127

## AIRPORT DIAGRAM

AL-516 (FAA)

RALEIGH-DURHAM INTL (RDU)  
RALEIGH/DURHAM, NORTH CAROLINA

## AIRPORT DIAGRAM

09127

RALEIGH/DURHAM, NORTH CAROLINA  
RALEIGH-DURHAM INTL (RDU)

09239

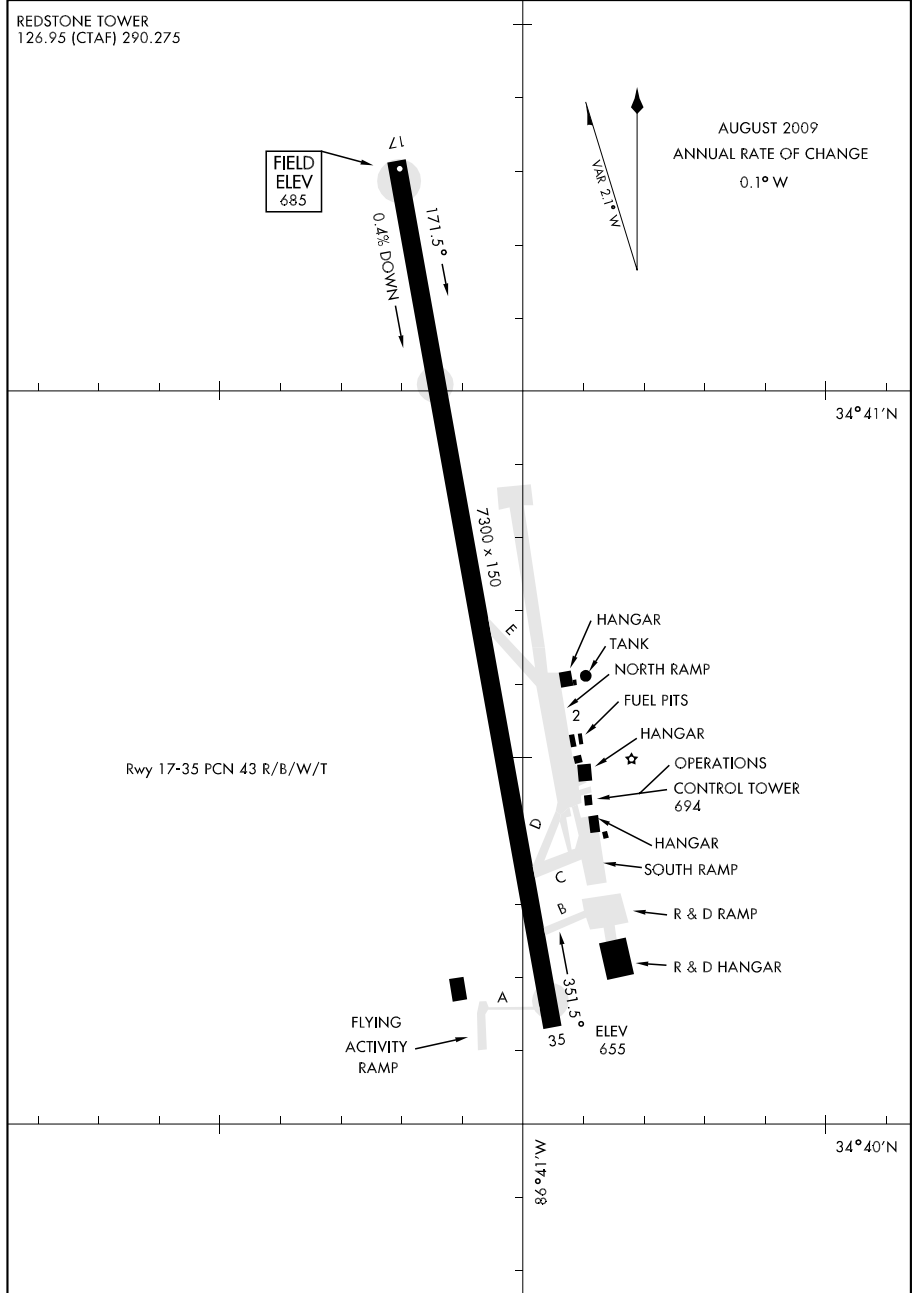
# AIRPORT DIAGRAM

AFD-703 [USA]

REDSTONE AAF (KHUA)

REDSTONE ARSENAL, ALABAMA

REDSTONE TOWER  
126.95 (CTAF) 290.275



# AIRPORT DIAGRAM

REDSTONE ARSENAL, ALABAMA

REDSTONE AAF (KHUA)

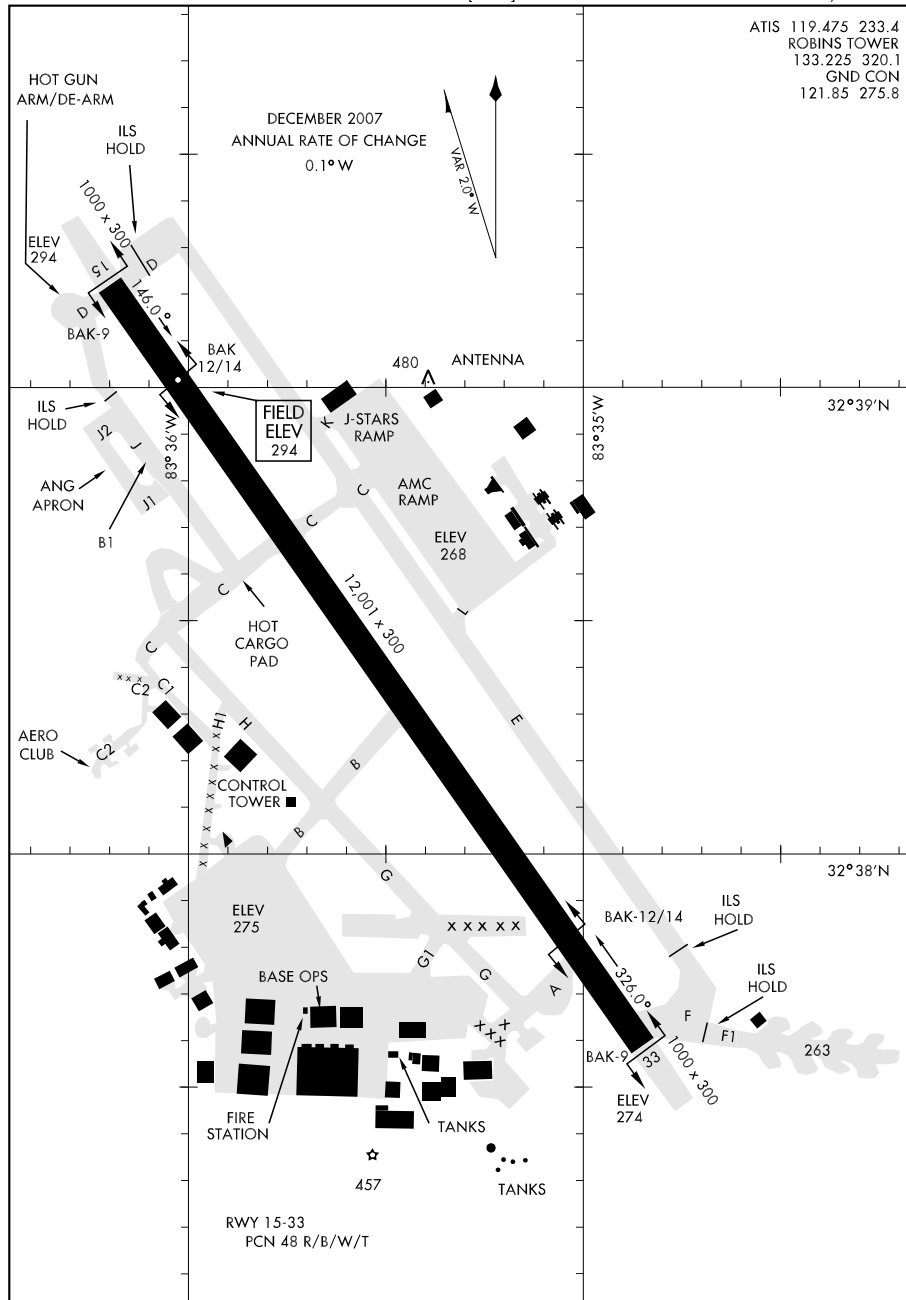
07354

## AIRPORT DIAGRAM

AFD-442 [USAF]

ROBINS AFB (KWRB)

WARNER ROBINS, GEORGIA



## AIRPORT DIAGRAM

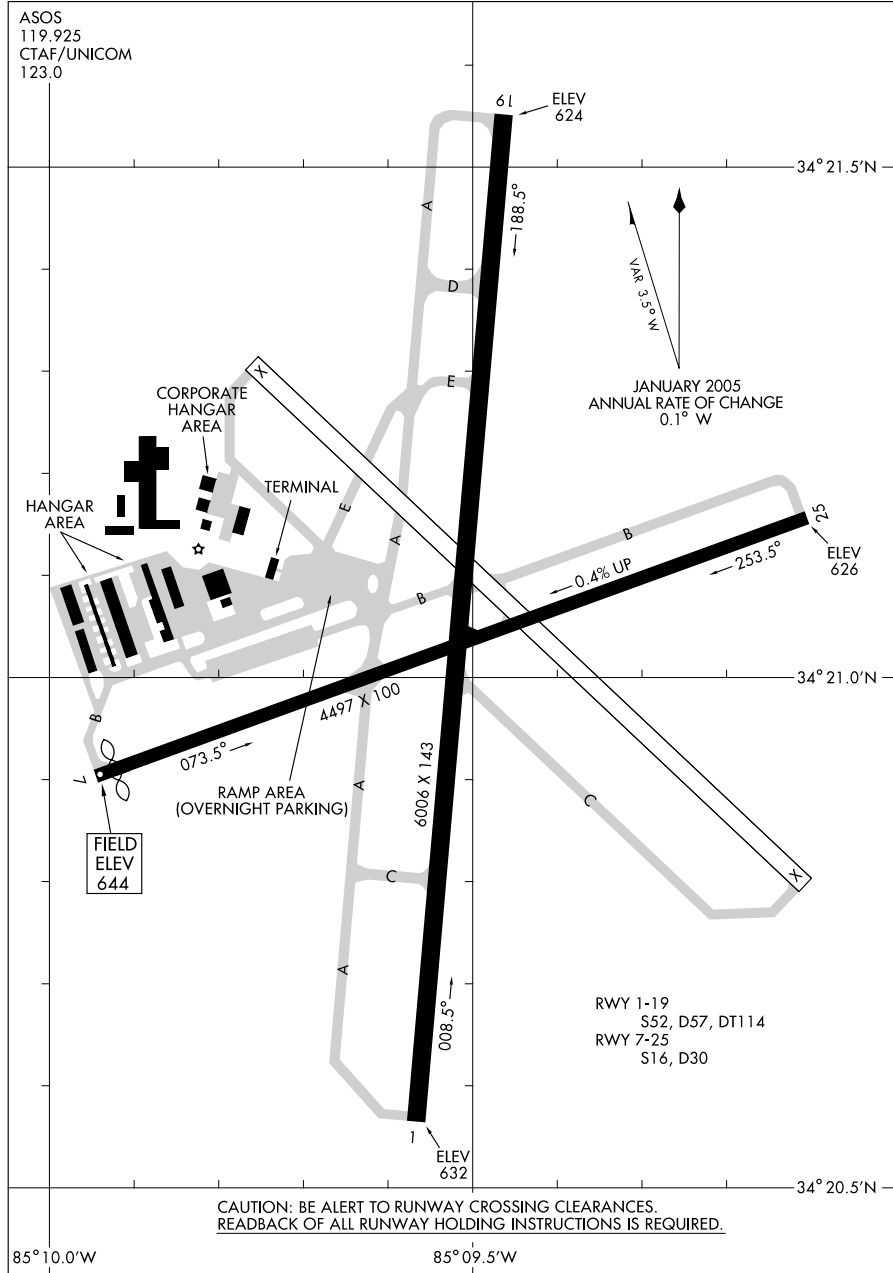
WARNER ROBINS, GEORGIA

ROBINS AFB (KWRB)

09071

## AIRPORT DIAGRAM

AL-855 (FAA)

ROME/ RICHARD B. RUSSELL (RMG)  
ROME, GEORGIA

## AIRPORT DIAGRAM

09071

ROME, GEORGIA  
ROME/ RICHARD B. RUSSELL (RMG)

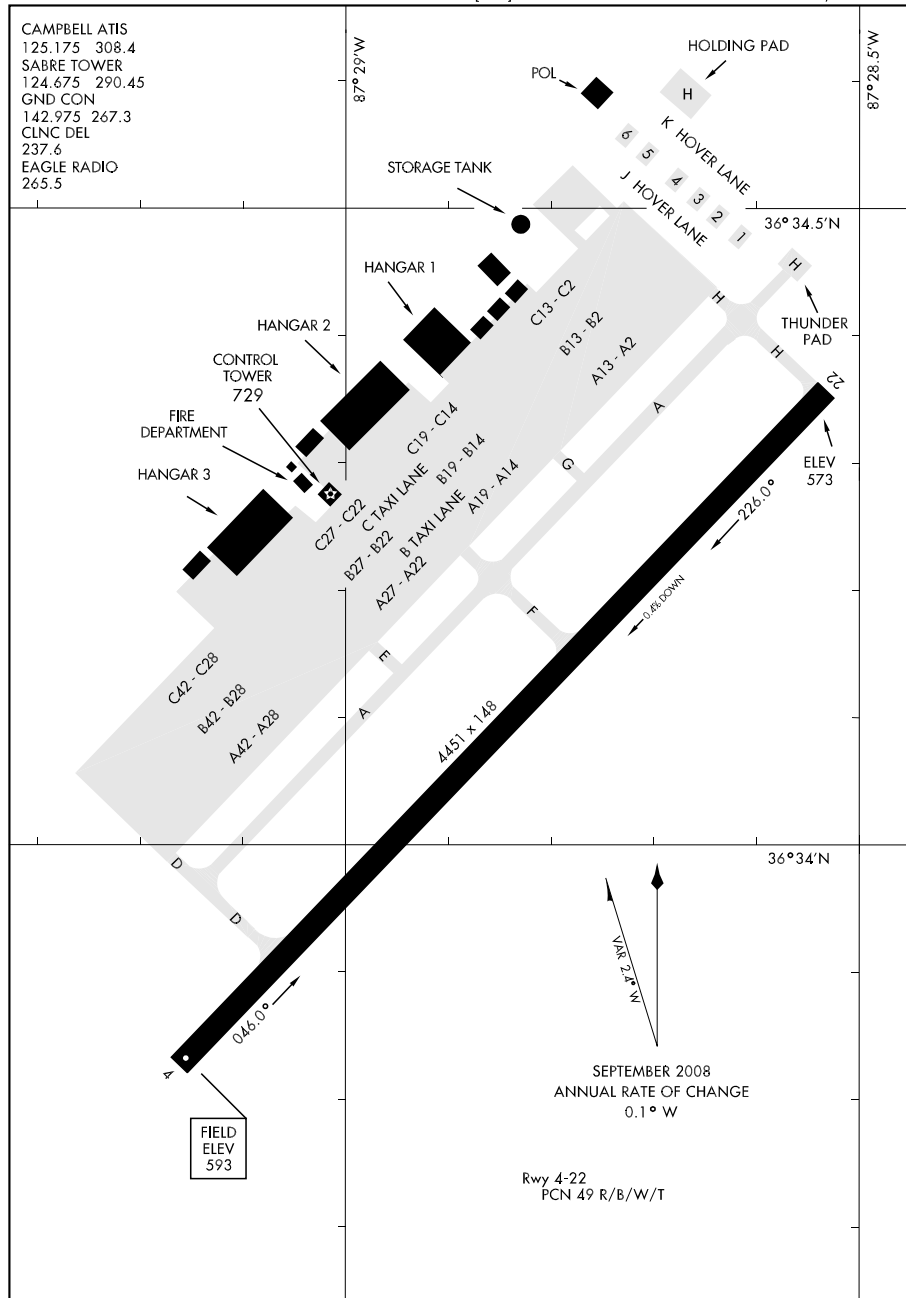
Orig 09071

SABRE AHP (FORT CAMPBELL) (KEOD)

## AIRPORT DIAGRAM

AFD-6373 [USA]

CLARKSVILLE, TENNESSEE



## AIRPORT DIAGRAM

WGS-84 DATUM

CLARKSVILLE, TENNESSEE

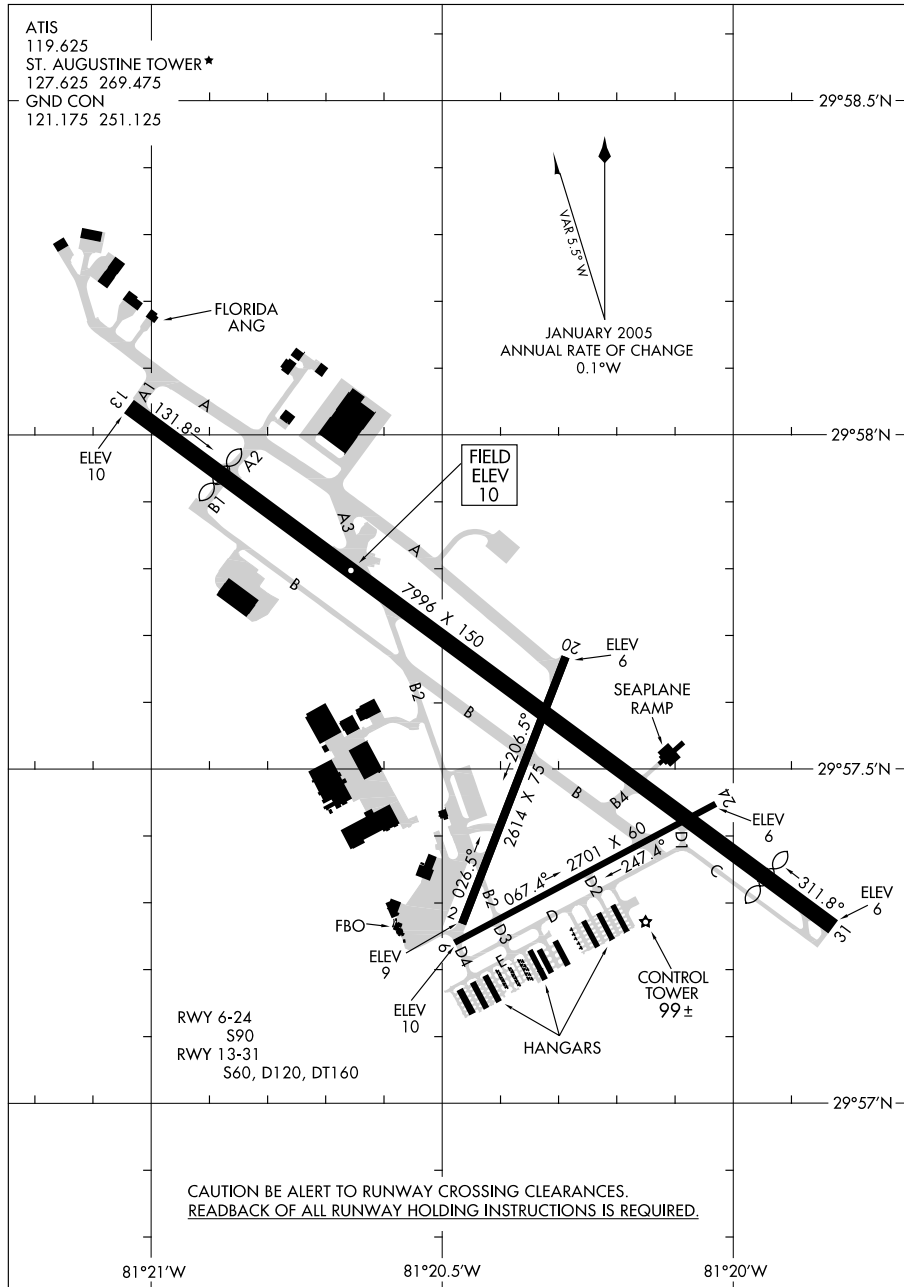
SABRE AHP (FORT CAMPBELL) (KEOD)



09183

## AIRPORT DIAGRAM

AL-692 (FAA)

ST. AUGUSTINE (SGJ)  
ST. AUGUSTINE, FLORIDA

## AIRPORT DIAGRAM

09183

ST. AUGUSTINE, FLORIDA  
ST. AUGUSTINE (SGJ)

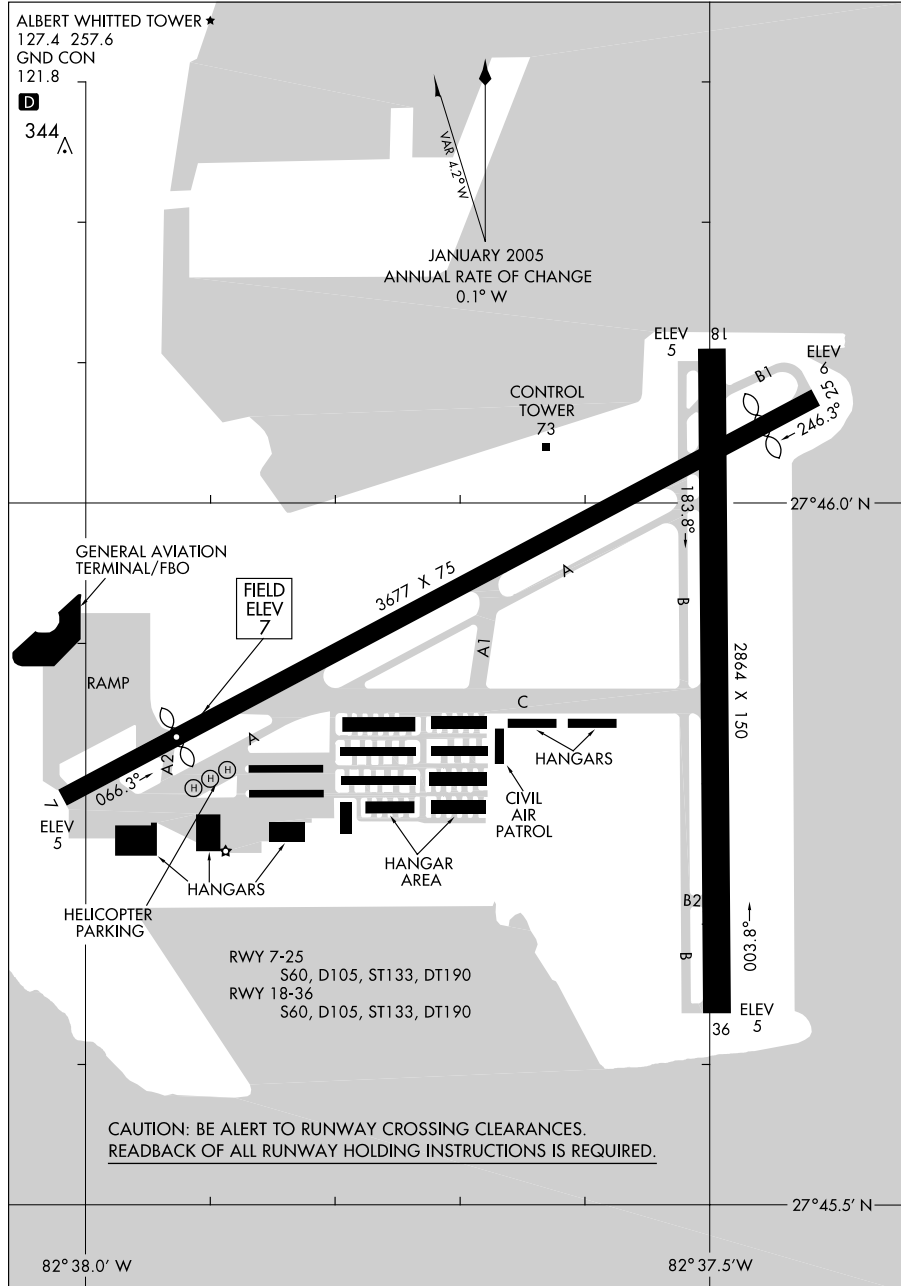
09015

## AIRPORT DIAGRAM

AL-613 (FAA)

ST. PETERSBURG/ALBERT WHITTED (SPG)

ST. PETERSBURG, FLORIDA



## AIRPORT DIAGRAM

ST. PETERSBURG, FLORIDA

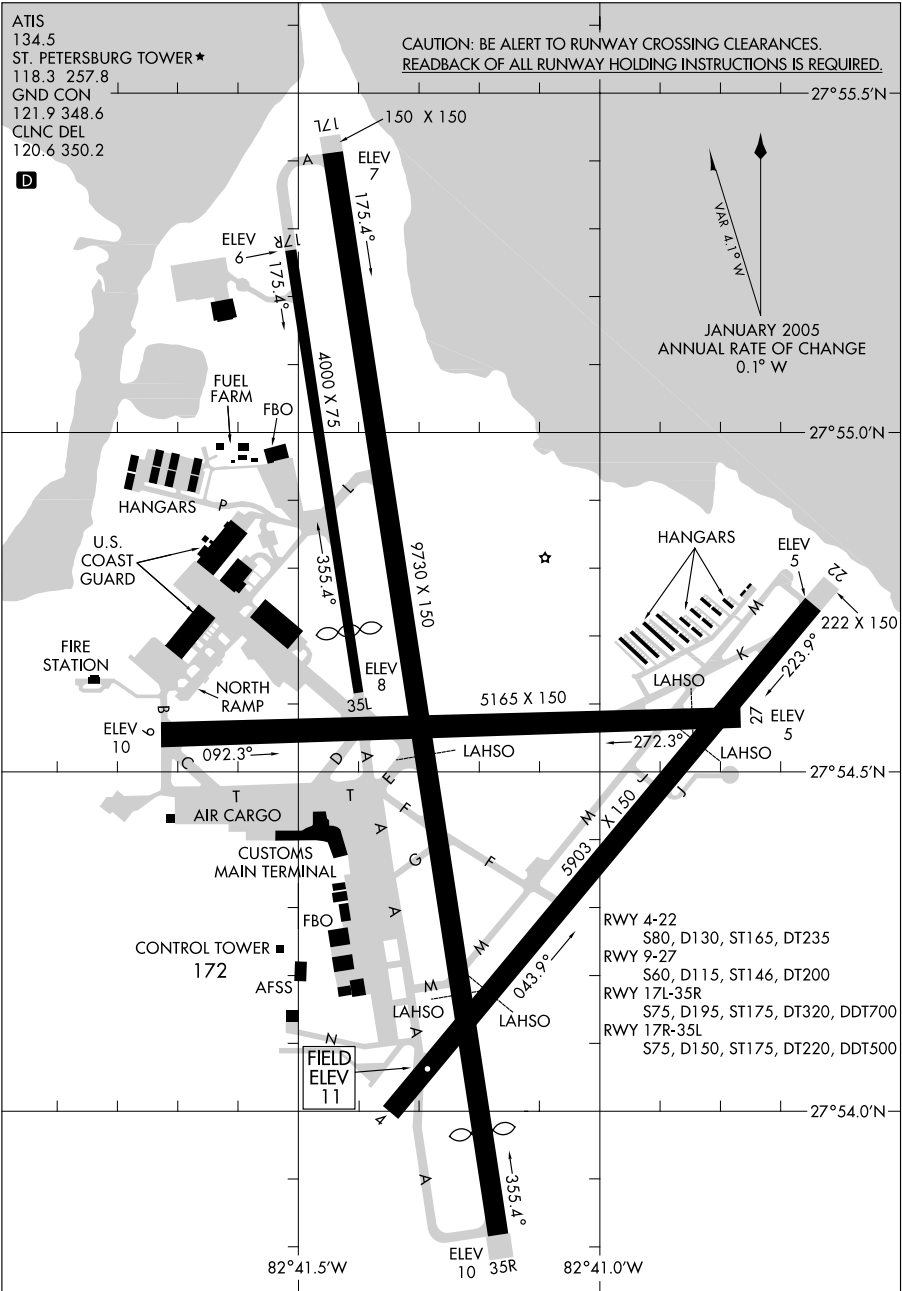
ST. PETERSBURG/ALBERT WHITTED (SPG)

09015

# AIRPORT DIAGRAM

ST. PETERSBURG-CLEARWATER, FLORIDA

AL-625 (FAA)



# AIRPORT DIAGRAM

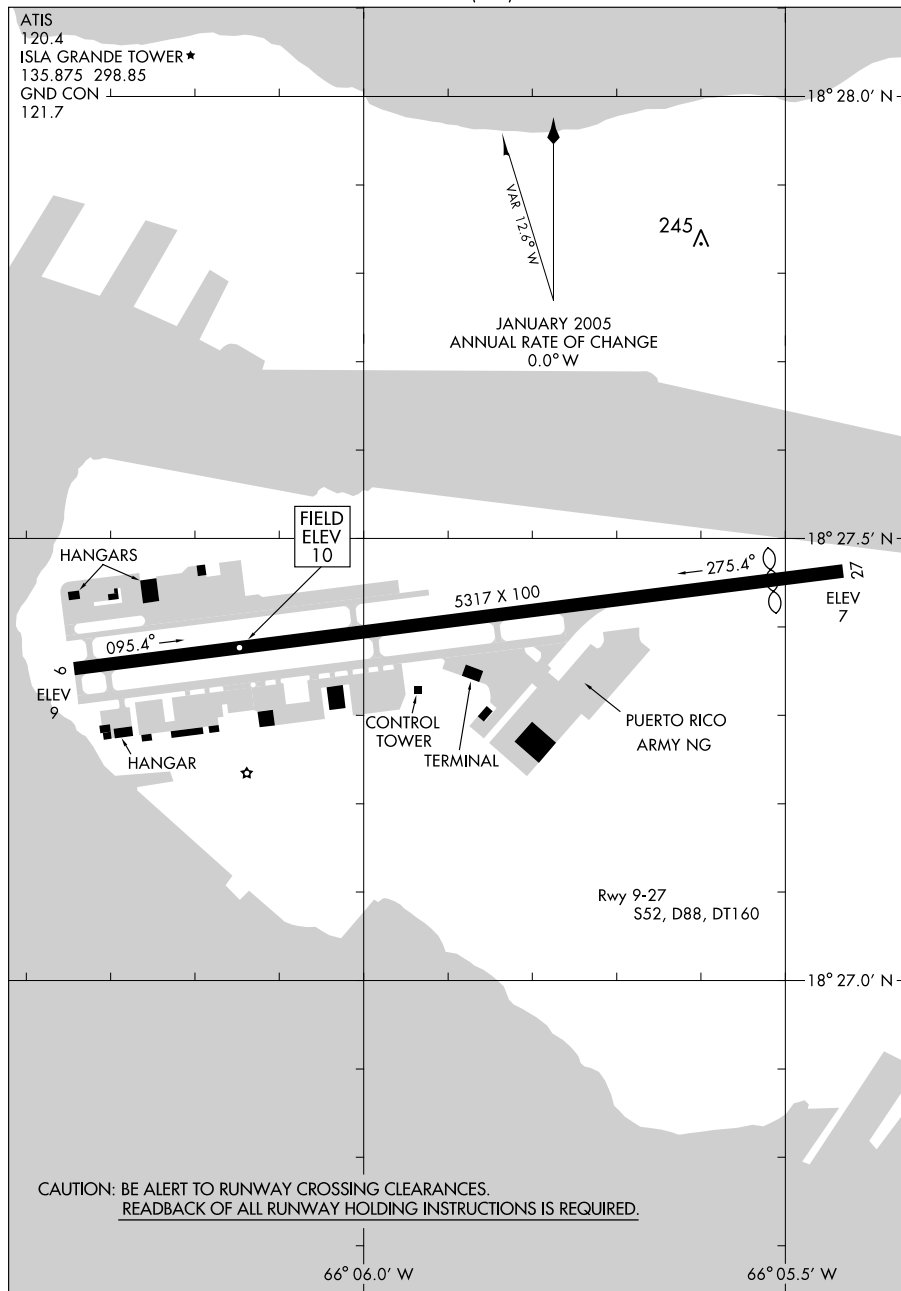
09015

ST. PETERSBURG-CLEARWATER INTL (PIE)

09295

## AIRPORT DIAGRAM

SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)  
AL-1019 (FAA) SAN JUAN, PUERTO RICO



## AIRPORT DIAGRAM

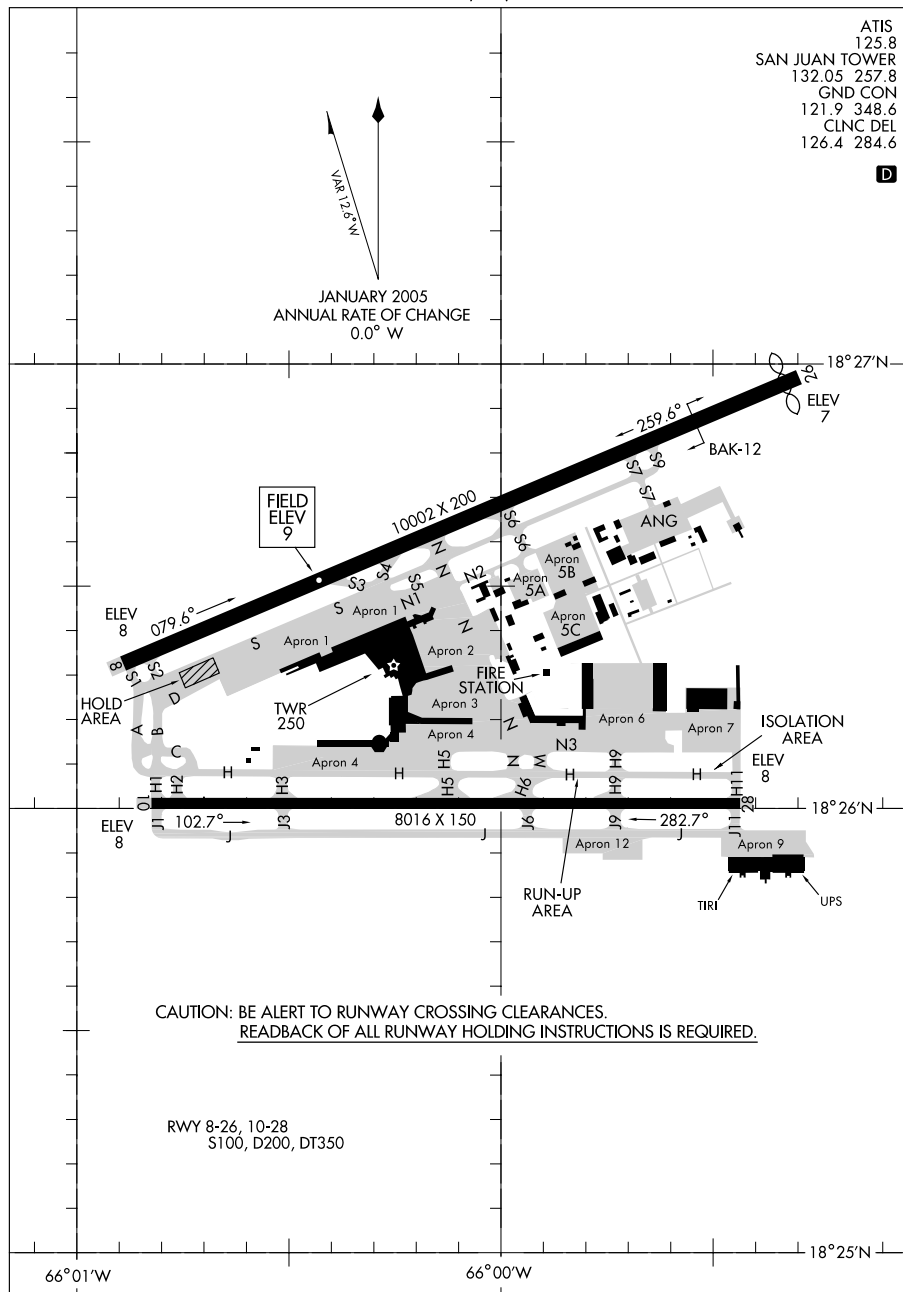
09295

SAN JUAN, PUERTO RICO  
SAN JUAN/ FERNANDO LUIS RIBAS DOMINICCI (SIG)(TJIG)

09295

## AIRPORT DIAGRAM

SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)  
AL-784 (FAA)  
SAN JUAN, PUERTO RICO



## AIRPORT DIAGRAM

09295

SAN JUAN, PUERTO RICO  
SAN JUAN/ LUIS MUNOZ MARIN INTL (SJU)(TJSJ)

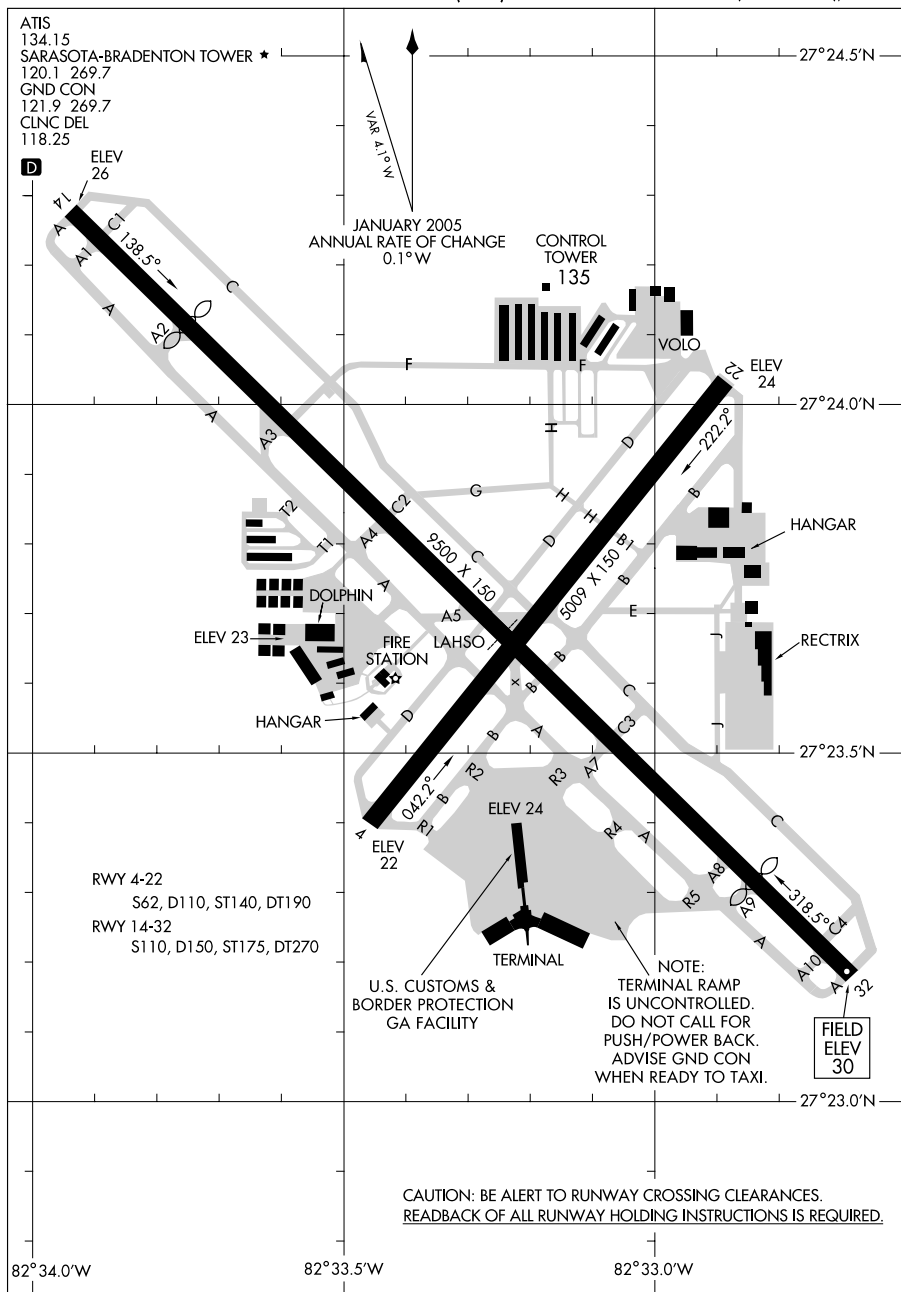
09127

## AIRPORT DIAGRAM

AL-640 (FAA)

SARASOTA/BRADENTON INTL (SRQ)

SARASOTA (BRADENTON), FLORIDA



## AIRPORT DIAGRAM

09127

SARASOTA (BRADENTON), FLORIDA

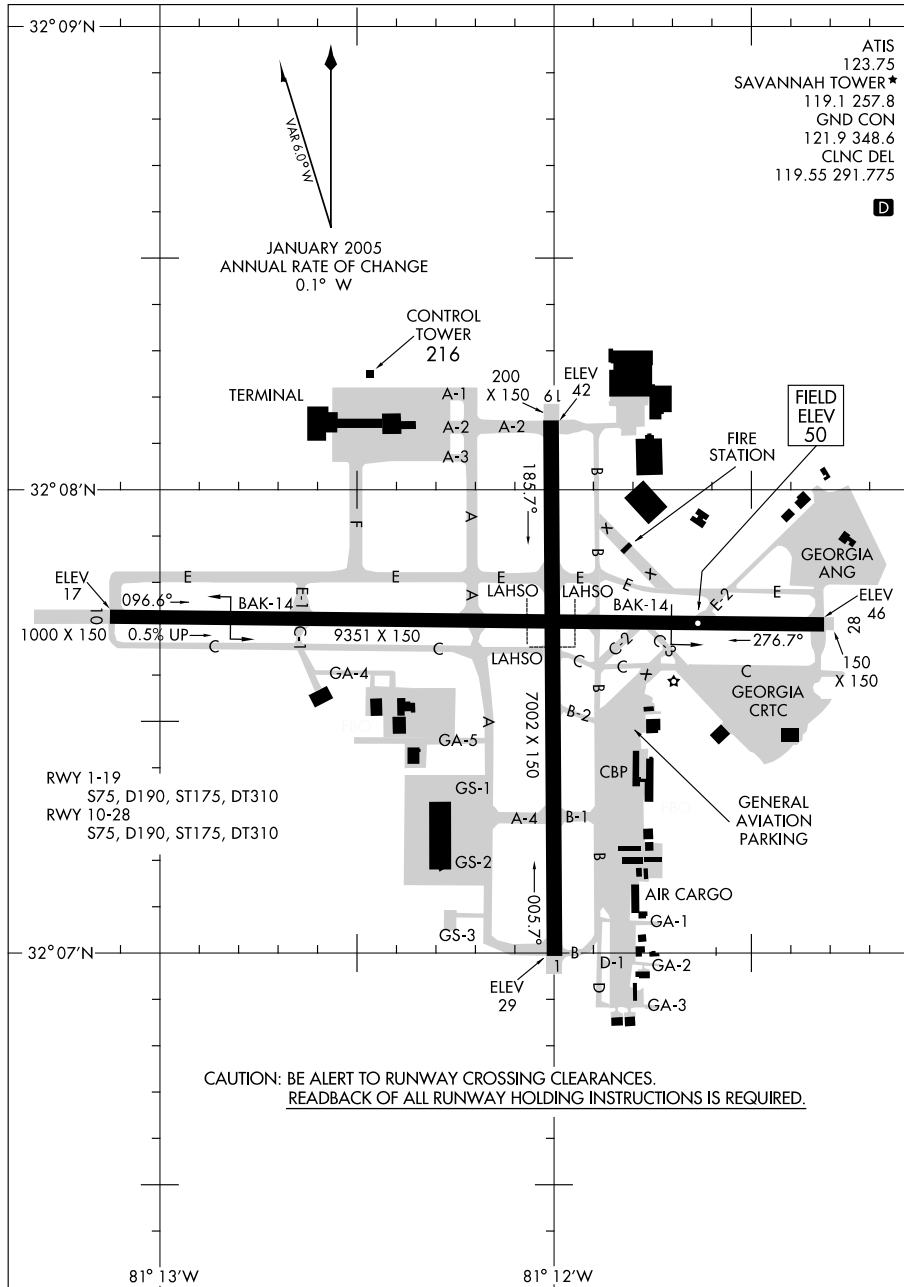
SARASOTA/BRADENTON INTL (SRQ)

09183

# AIRPORT DIAGRAM

AL-380 (FAA)

SAVANNAH/HILTON HEAD INTL (SAV)  
SAVANNAH, GEORGIA



## AIRPORT DIAGRAM

09183

SAVANNAH, GEORGIA  
SAVANNAH/HILTON HEAD INTL (SAV)

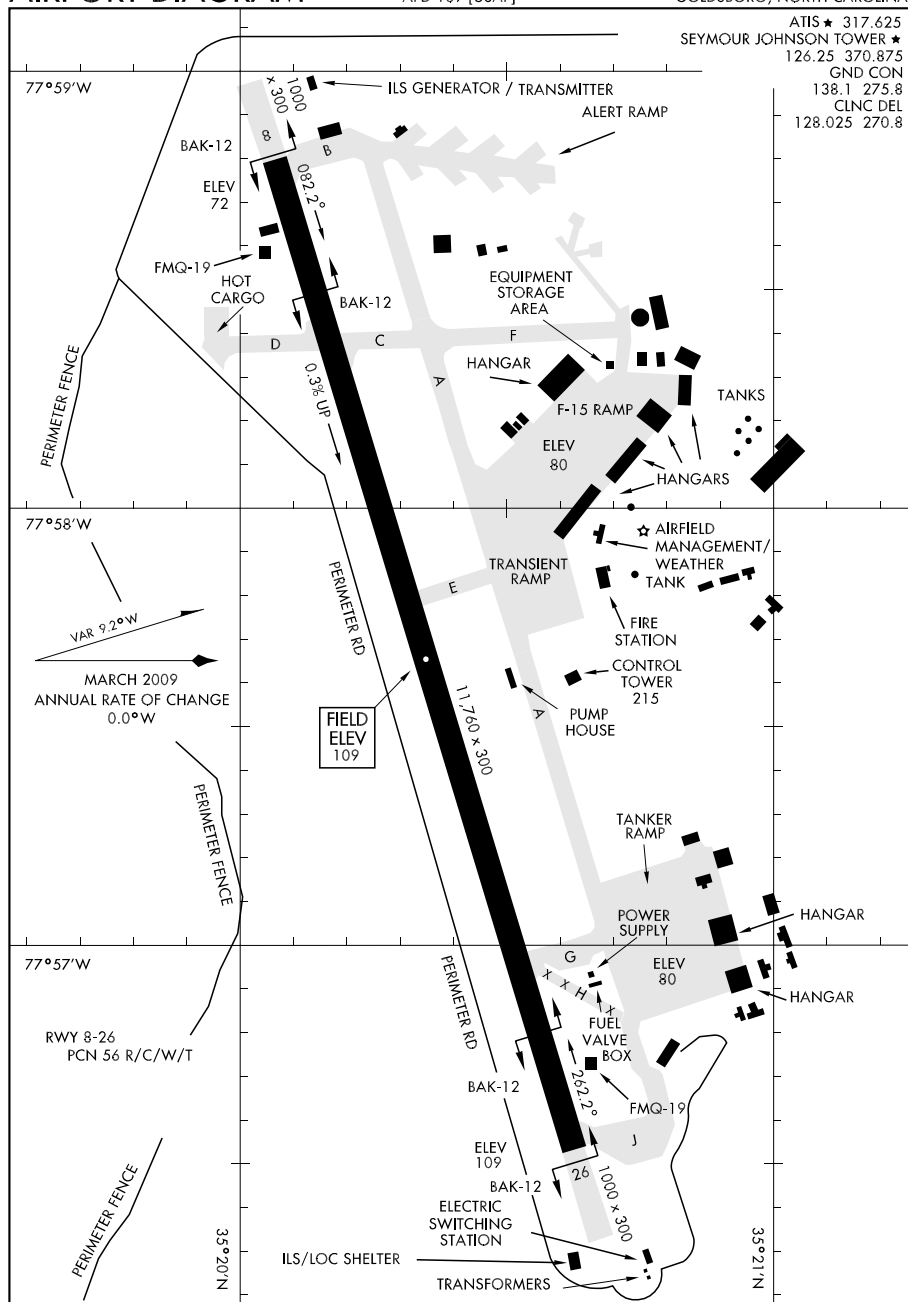
09071

## AIRPORT DIAGRAM

AFD-169 [USAF]

SEYMOUR JOHNSON AFB (KGSB)

GOLDSBORO, NORTH CAROLINA



## AIRPORT DIAGRAM

GOLDSBORO, NORTH CAROLINA

SEYMOUR JOHNSON AFB (KGSB)



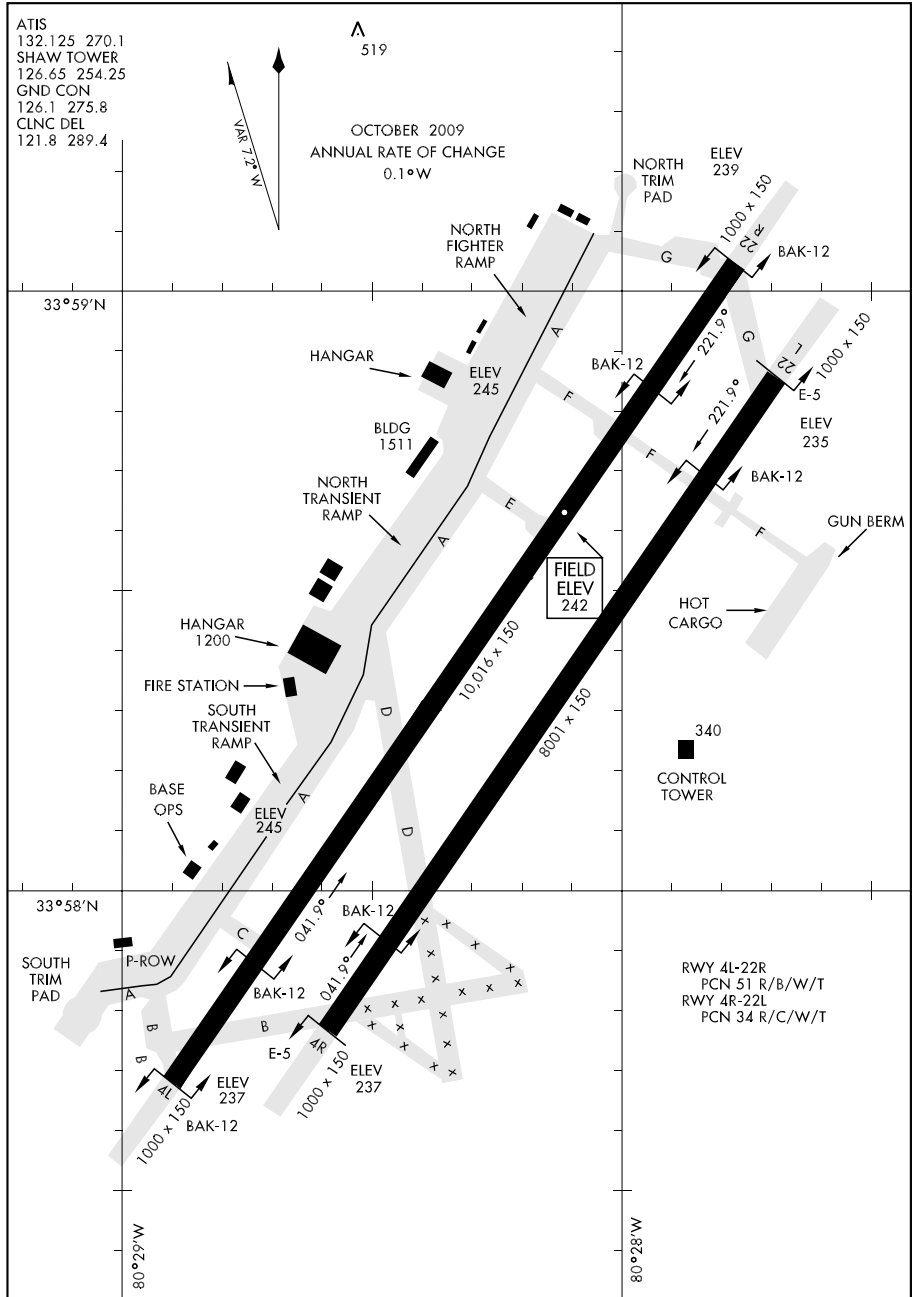
09295

## AIRPORT DIAGRAM

AFD-409 [USAF]

SHAW AFB (KSSC)

SUMTER, SOUTH CAROLINA



## AIRPORT DIAGRAM

SUMTER, SOUTH CAROLINA

SHAW AFB (KSSC)

SE, 22 OCT 2009 to 17 DEC 2009

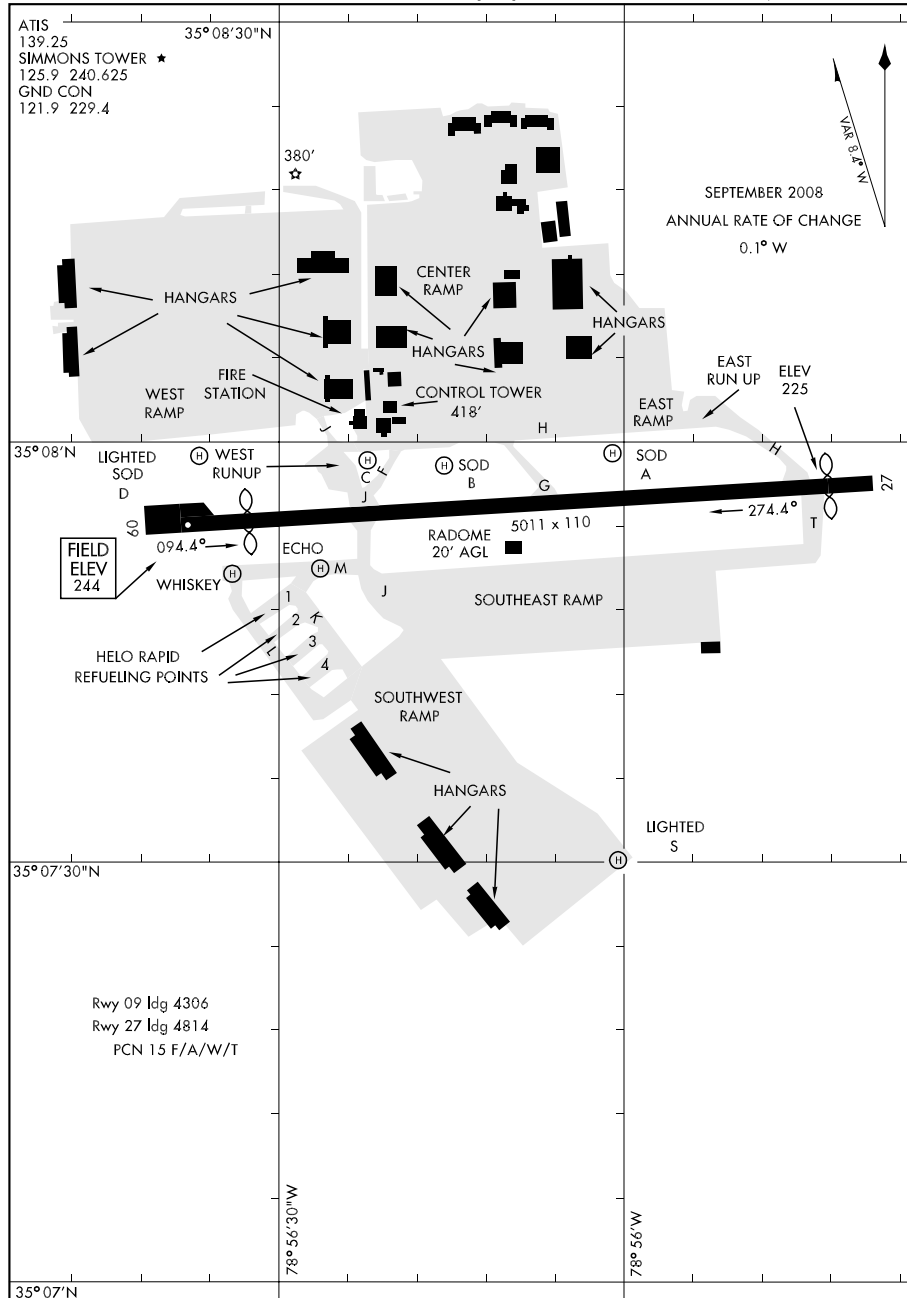
08269

## AIRPORT DIAGRAM

AFD-5069 [USA]

SIMMONS AAF (KFBG)

FORT BRAGG, NORTH CAROLINA



## AIRPORT DIAGRAM

FORT BRAGG, NORTH CAROLINA

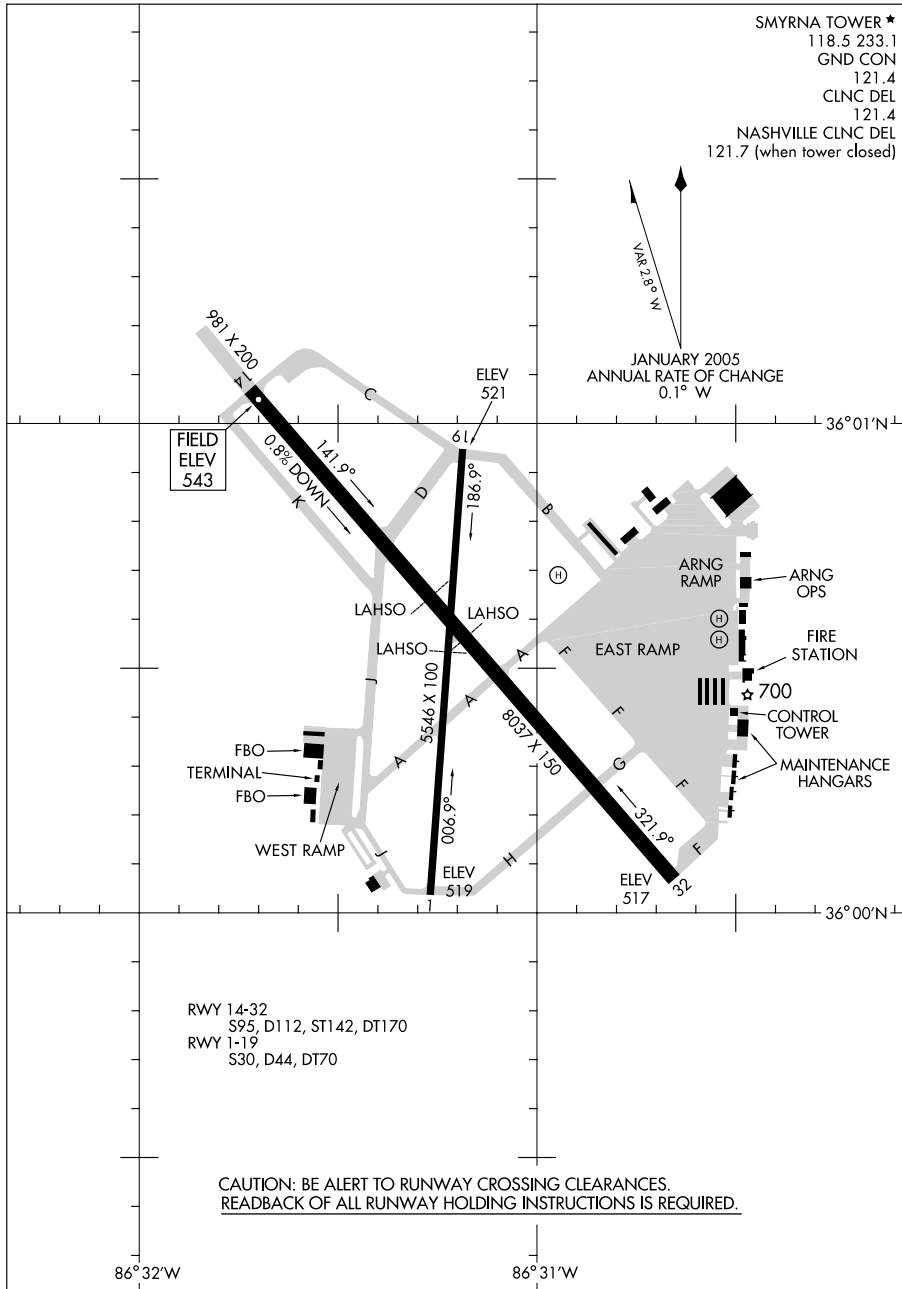
SIMMONS AAF (KFBG)

06327

# AIRPORT DIAGRAM

AL-895 (FAA)

SMYRNA (MQY)  
SMYRNA, TENNESSEE



# AIRPORT DIAGRAM

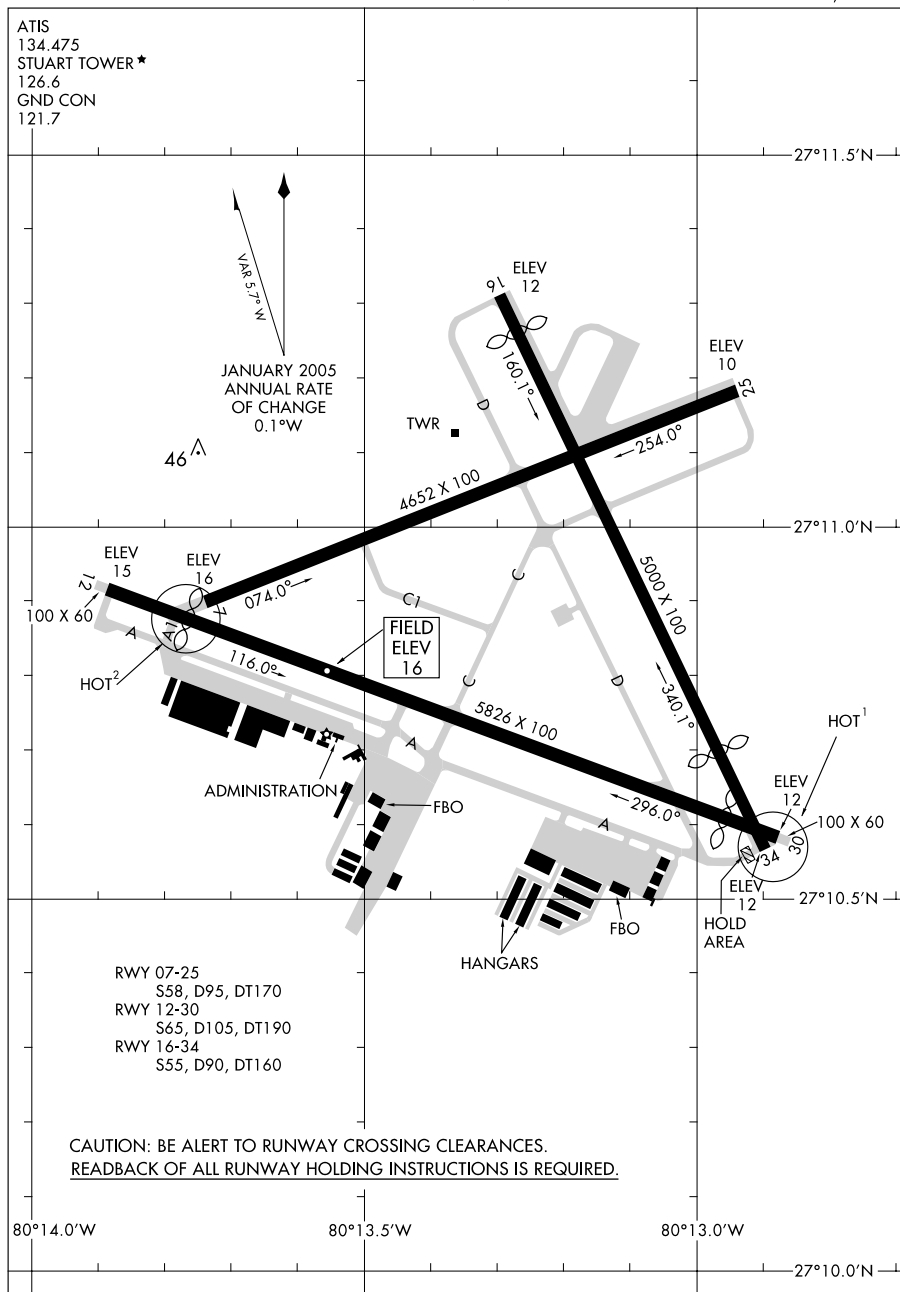
06327

SMYRNA, TENNESSEE  
SMYRNA (MQY)

09239

## AIRPORT DIAGRAM

AL-9217 (FAA)

STUART/WITHAM FIELD (SUA)  
STUART, FLORIDA

## AIRPORT DIAGRAM

09239

STUART, FLORIDA  
STUART/WITHAM FIELD (SUA)

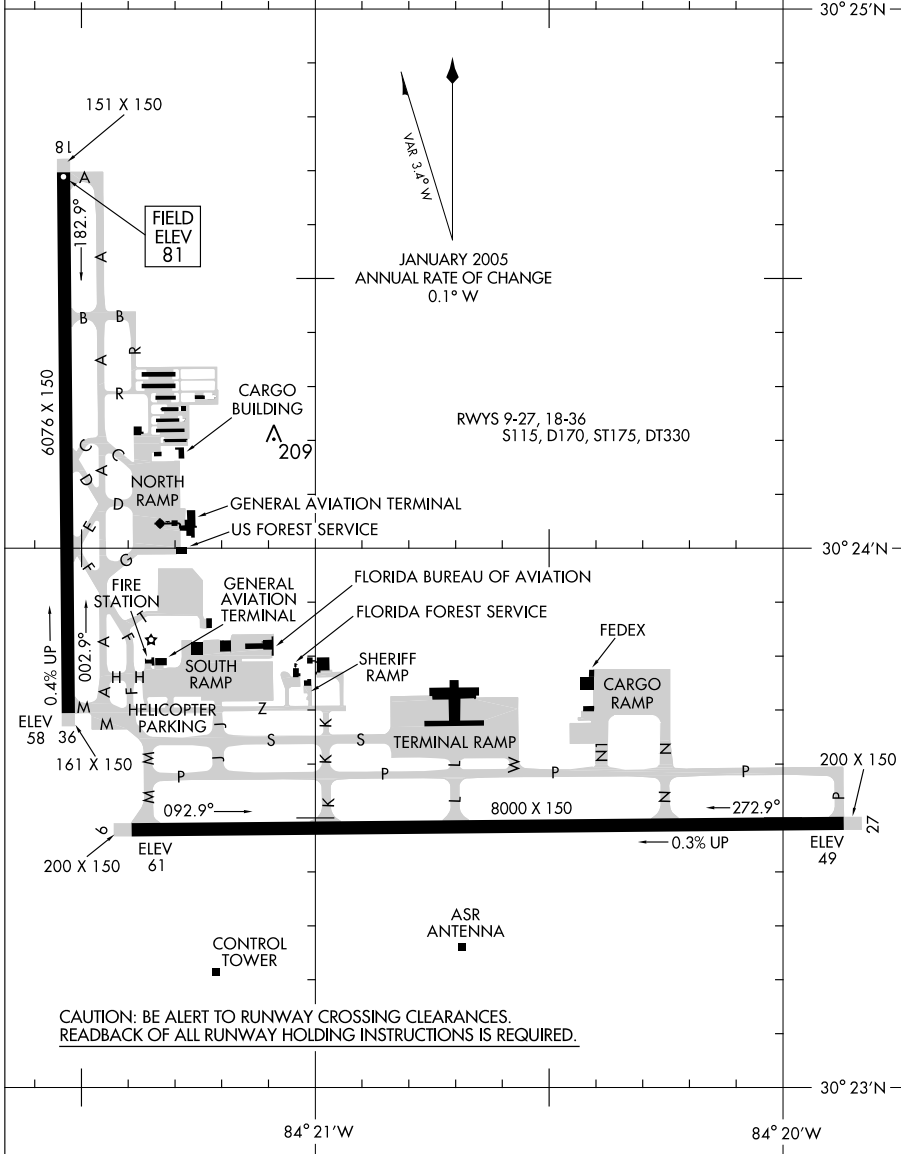
07354

## AIRPORT DIAGRAM

AL-5048 (FAA)

TALLAHASSEE RGNL (TLH)  
TALLAHASSEE, FLORIDA

ATIS 119.45 239.25  
TALLAHASSEE TOWER ★  
118.7 257.8  
GND CON  
121.9 348.6  
CLNC DEL  
126.65 275.8



## AIRPORT DIAGRAM

07354

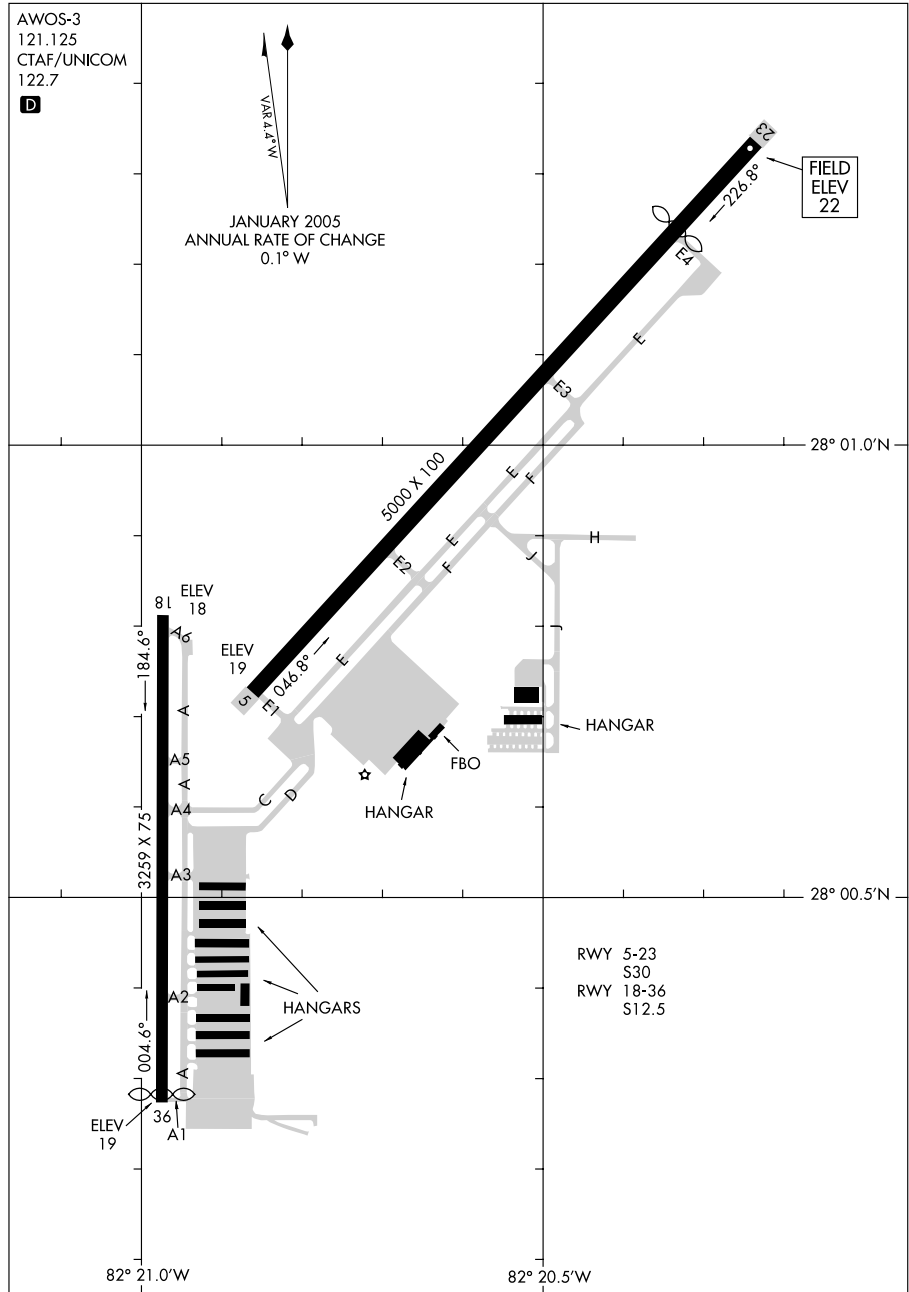
TALLAHASSEE, FLORIDA  
TALLAHASSEE RGNL (TLH)

09183

AIRPORT DIAGRAM

AL-9241 (FAA)

TAMPA EXECUTIVE(VDF)  
TAMPA, FLORIDA



AIRPORT DIAGRAM

09183

TAMPA EXECUTIVE(VDF)  
TAMPA, FLORIDA

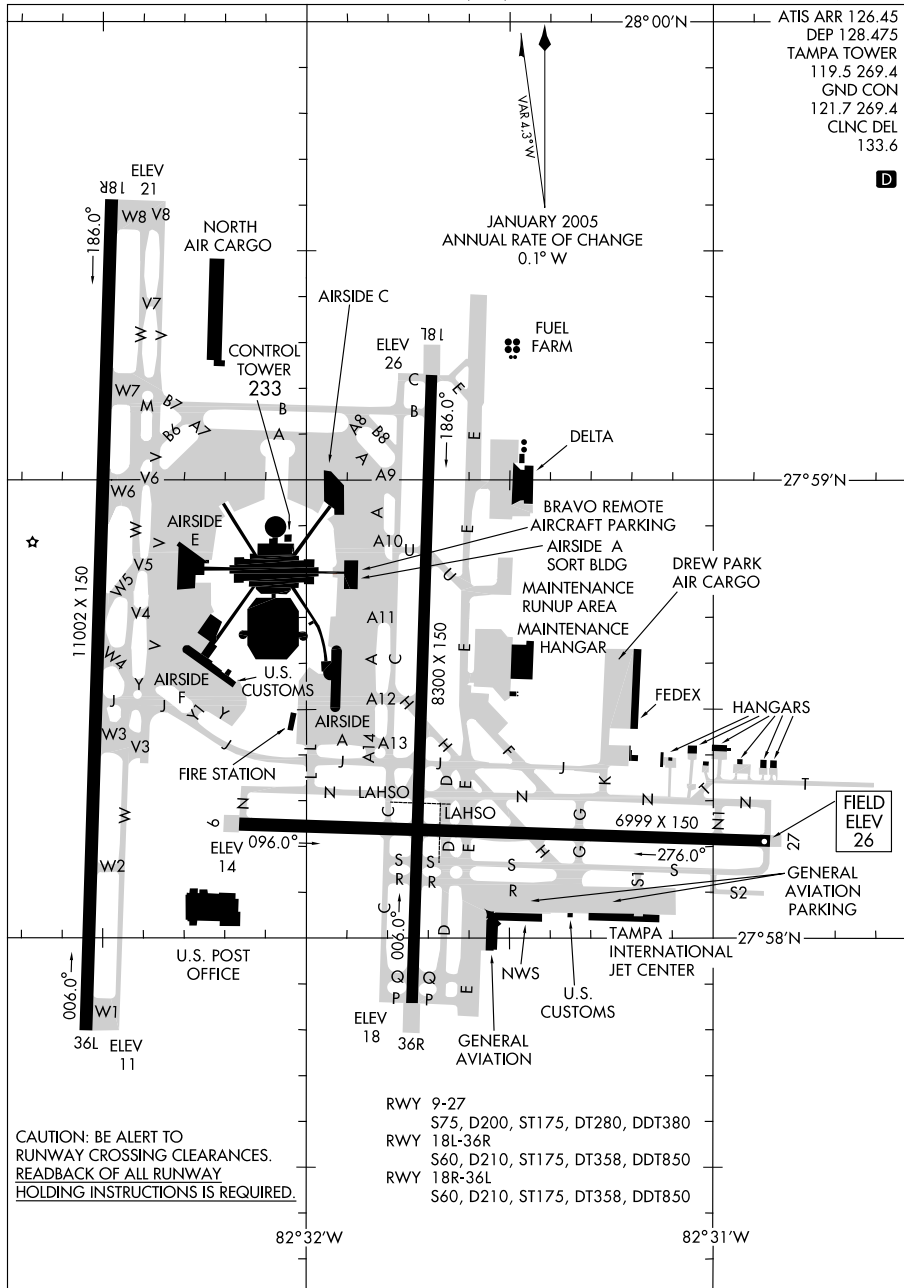
09183

## AIRPORT DIAGRAM

AL-416 (FAA)

TAMPA INTL (TPA)

TAMPA, FLORIDA



## AIRPORT DIAGRAM

09183

TAMPA, FLORIDA  
TAMPA INTL (TPA)

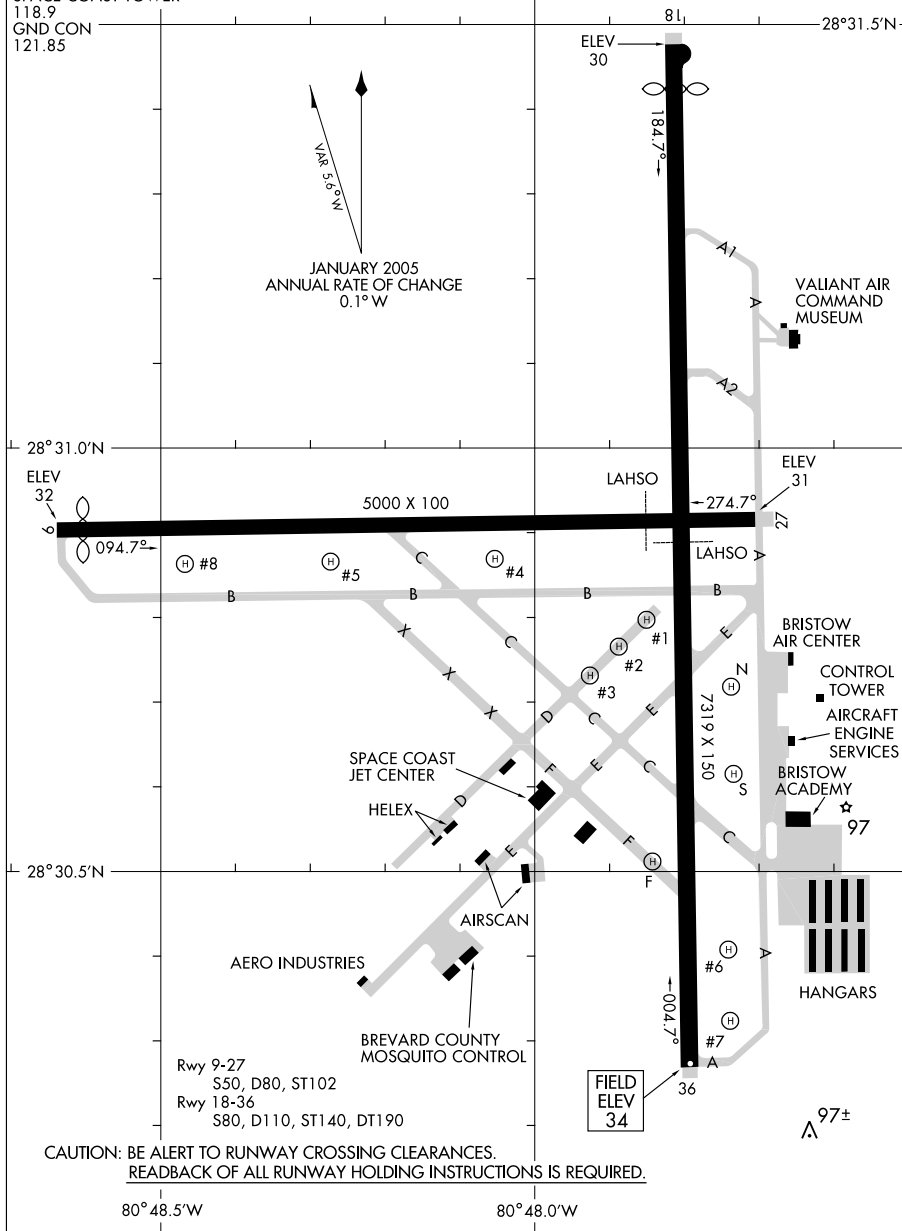
09295

## AIRPORT DIAGRAM

AL-5760 (FAA)

TITUSVILLE/SPACE COAST RGNL (TIX)  
TITUSVILLE, FLORIDA

ATIS  
120.625  
SPACE COAST TOWER ★  
118.9  
GND CON  
121.85



## AIRPORT DIAGRAM

09295

TITUSVILLE, FLORIDA  
TITUSVILLE/ SPACE COAST RGNL (TIX)







09127

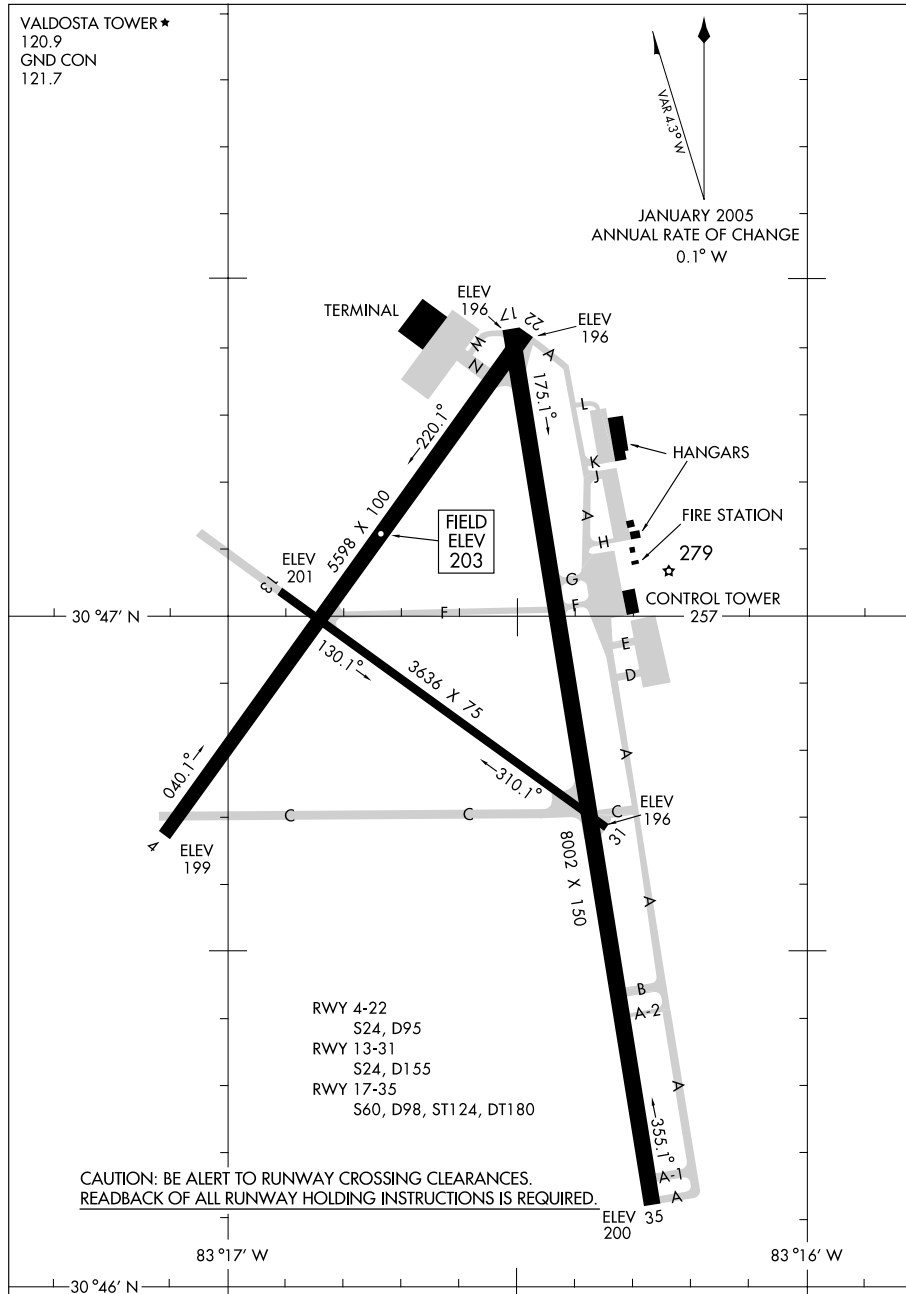
## AIRPORT DIAGRAM

AL-892 (FAA)

VALDOSTA RGNL (VLD)

VALDOSTA, GEORGIA

VALDOSTA TOWER ★  
120.9  
GND CON  
121.7



## AIRPORT DIAGRAM

09127

VALDOSTA, GEORGIA  
VALDOSTA RGNL (VLD)

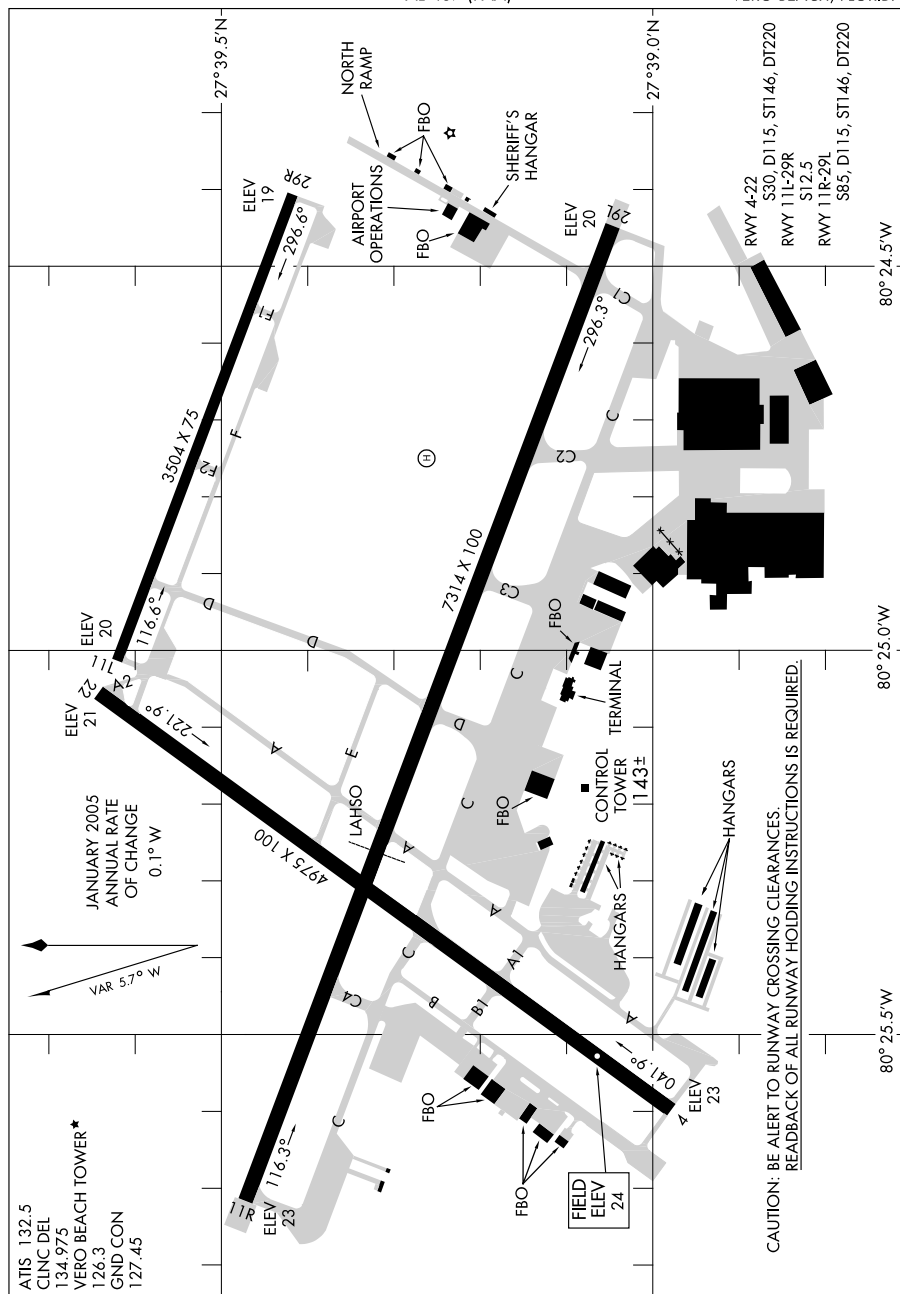
08325

## AIRPORT DIAGRAM

AL-437 (FAA)

VERO BEACH MUNI (VRB)

VERO BEACH, FLORIDA



## AIRPORT DIAGRAM

08325

VERO BEACH, FLORIDA  
VERO BEACH MUNI (VRB)

WEST PALM BEACH/PALM BEACH INTL (PBI)  
WEST PALM BEACH, FLORIDA

WEST PALM BEACH, FLORIDA



SE, 22 OCT 2009 to 17 DEC 2009

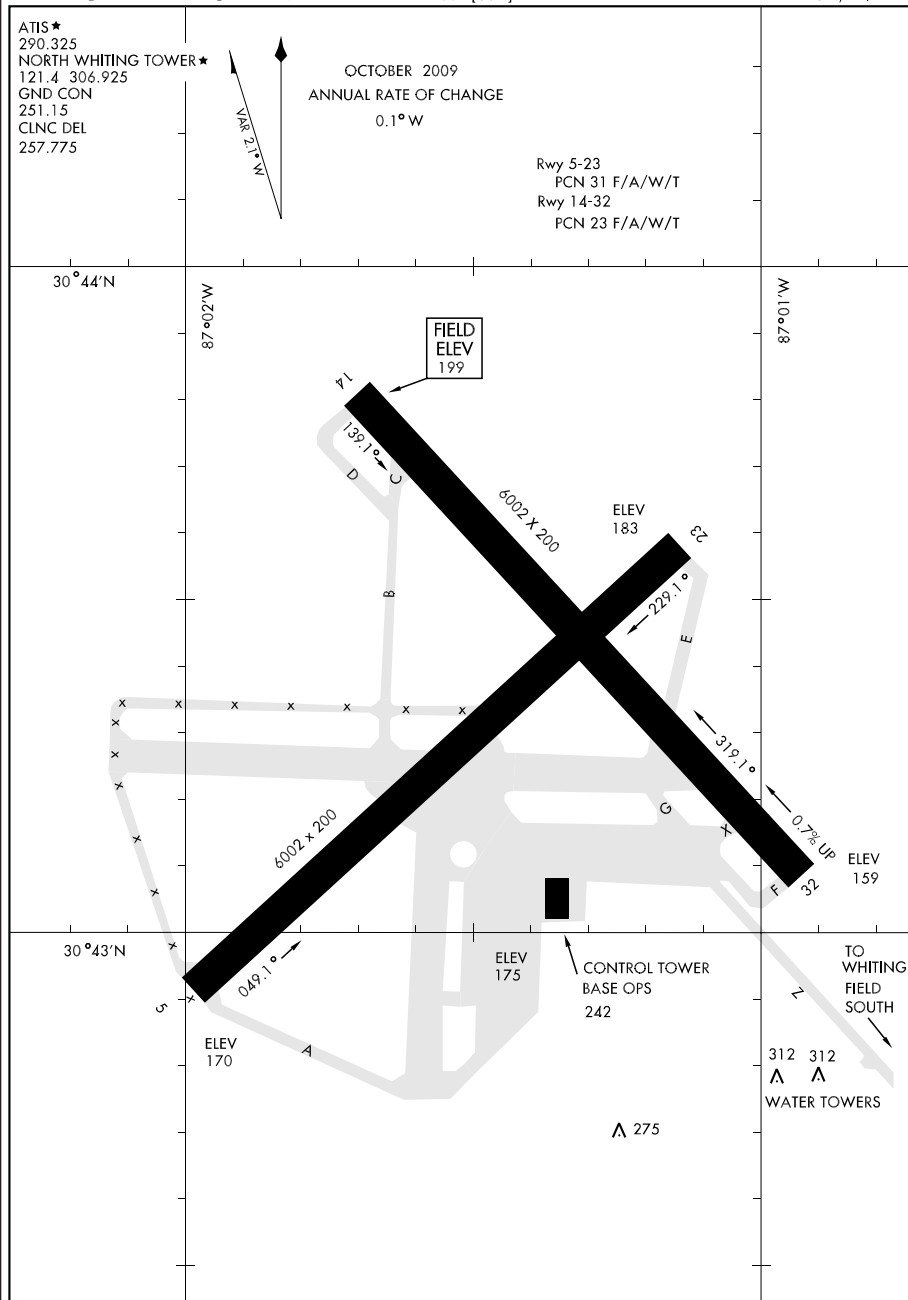
09295

## AIRPORT DIAGRAM

AFD-602 [USN]

WHITING FLD NAS (NORTH) (KNSE)

MILTON, FLORIDA



## AIRPORT DIAGRAM

 MILTON, FLORIDA  
 WHITING FLD NAS (NORTH) (KNSE)

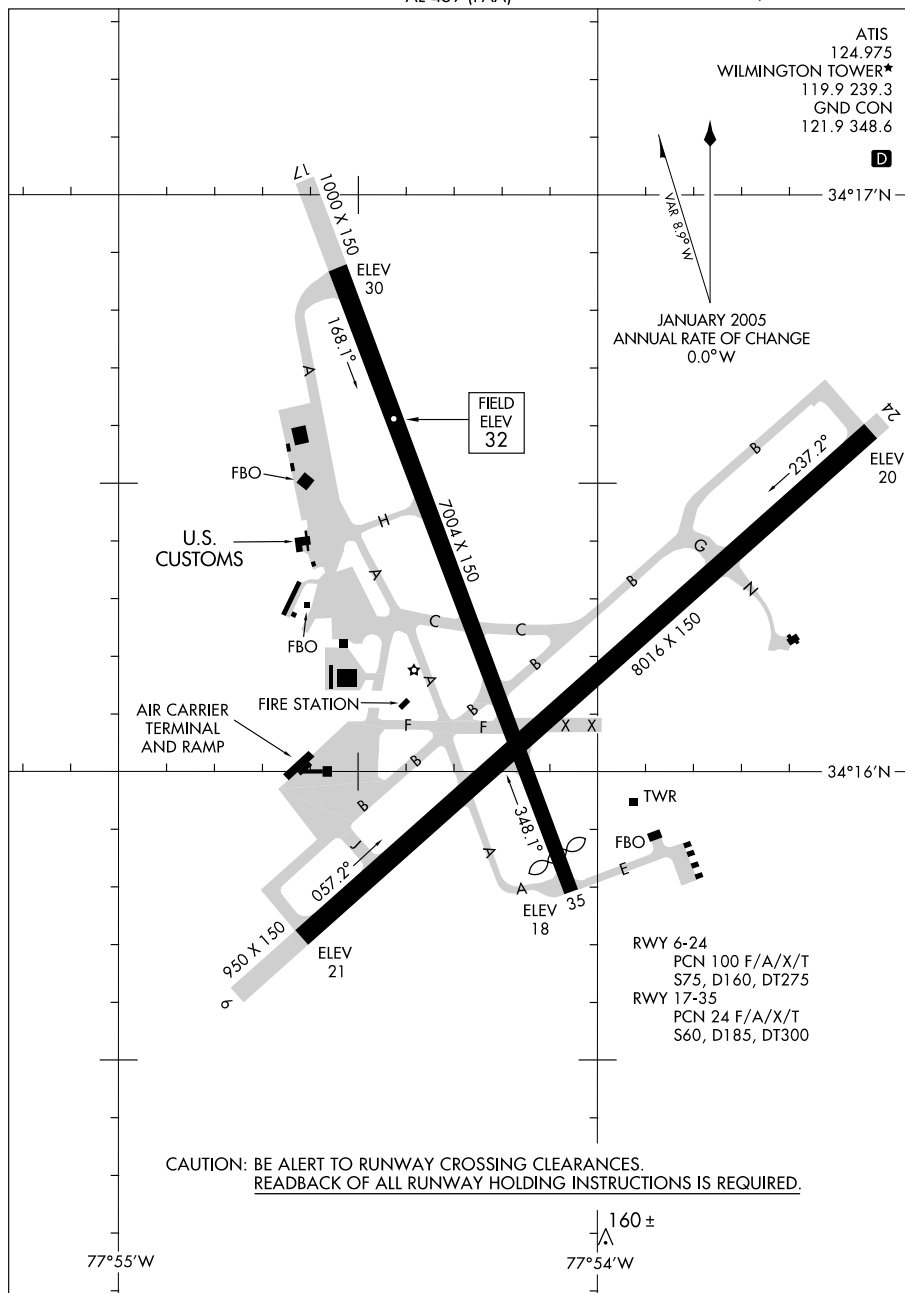
MILTON, FLORIDA

WHITING FLD NAS (SOUTH) (KNDZ)

09295

## AIRPORT DIAGRAM

AL-459 (FAA)

WILMINGTON INTL (ILM)  
WILMINGTON, NORTH CAROLINA

## AIRPORT DIAGRAM

09295

WILMINGTON, NORTH CAROLINA  
WILMINGTON INTL (ILM)

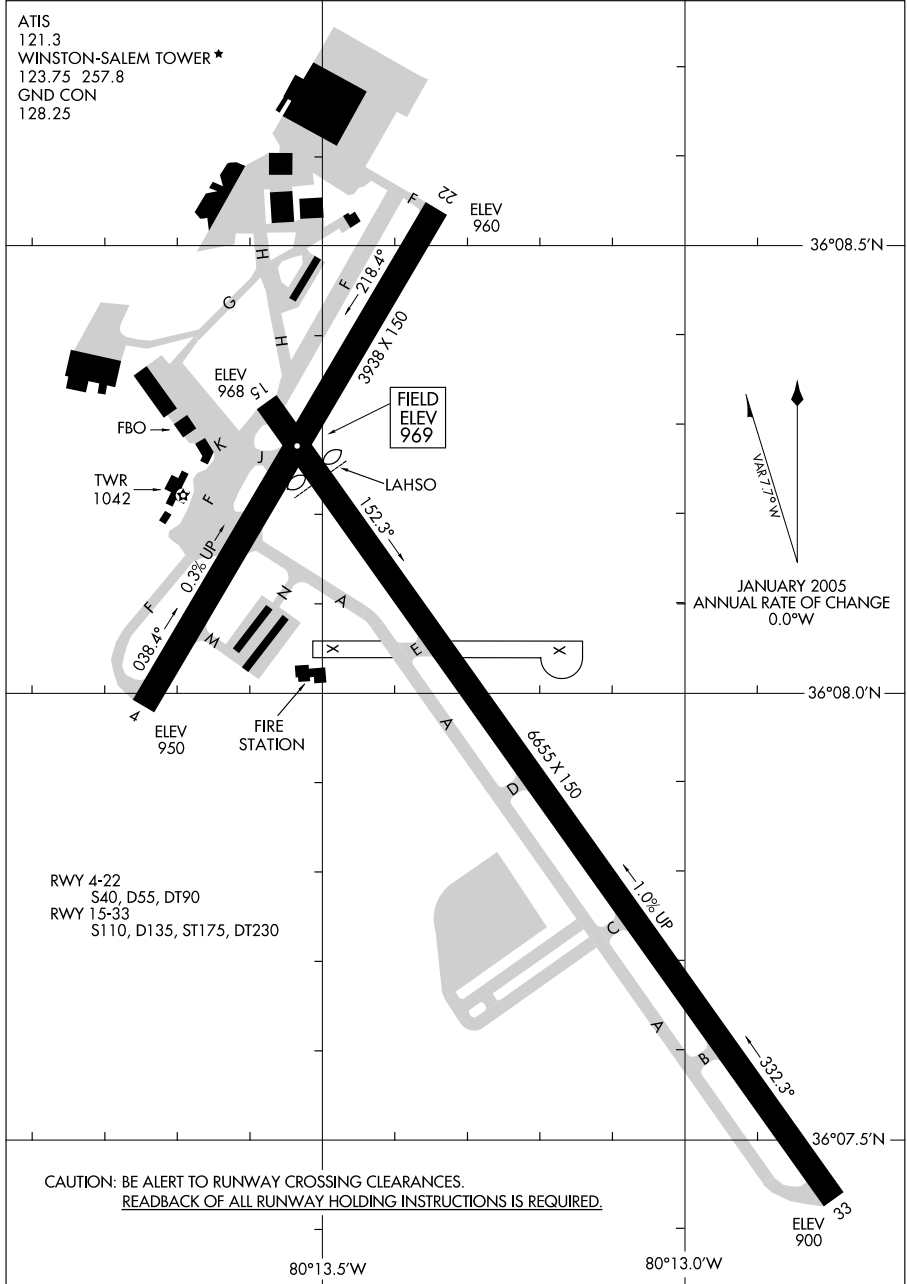


09295

# AIRPORT DIAGRAM

WINSTON-SALEM /SMITH REYNOLDS (INT')  
WINSTON-SALEM, NORTH CAROLINA

AL-463 (FAA)

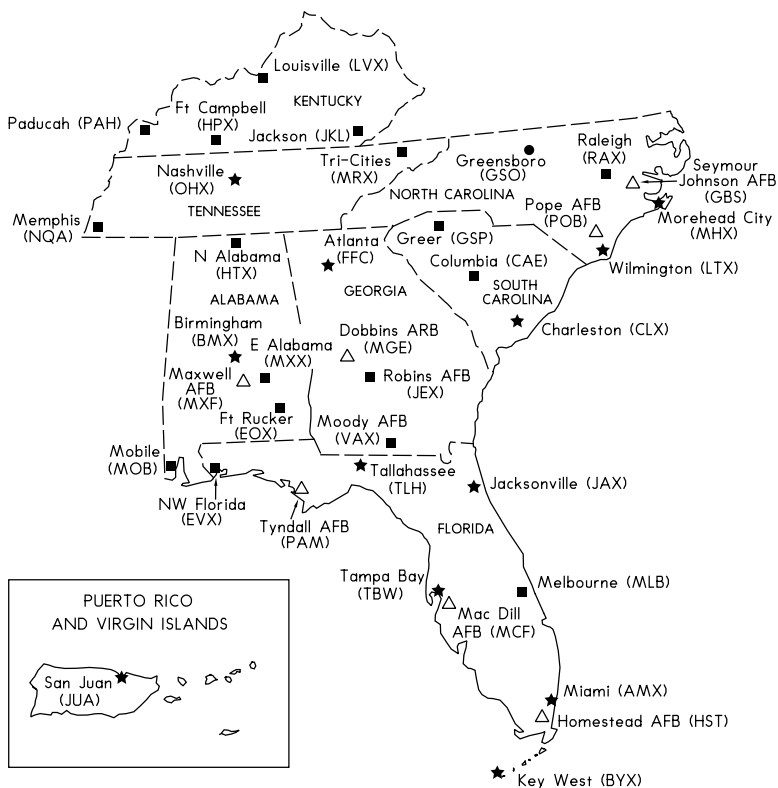


# AIRPORT DIAGRAM

09295

WINSTON-SALEM, NORTH CAROLINA  
WINSTON-SALEM /SMITH REYNOLDS (INT')

NATIONAL WEATHER SERVICE (NWS)  
UPPER AIR OBSERVING STATIONS (UAOS)  
AND  
WEATHER RADAR NETWORK



LEGEND

- △ AVIATION WEATHER SERVICE (MILITARY)
- ▲ AIR TRAFFIC CONTROL RADAR
- ★ UPPER AIR OBSERVING STATION/RADAR
- RADAR ONLY
- UAOS-BALLOON RELEASE AROUND 1100 UTC AND 2300 UTC DAILY
- OTHER NWS UPPER AIR STATIONS-BALLOON RELEASE TIMES ARE FLEXIBLE BUT GENERALLY AROUND SUNRISE AND/OR EARLY AFTERNOON

NOTE: FOR RELEASE LATER THAN 1130 UTC AND 2330 UTC, AND FOR SPECIAL RELEASES AT OTHER THAN THE SCHEDULED HOURS, AN AERONAUTICAL INFORMATION MESSAGE WILL BE FILED.